					DEPARTMEN ⁻						AMENI	FO DED REPOR	RM 3	
		AF	PLICATION I	FOR F	PERMIT TO DRILL					1. WELL NAME and N	JMBER NBU 102	2-3P4CS		
2. TYPE O	F WORK	DRILL NEW WELL	REENTE	R P&A	WELL DEEPEN	I WELL)			3. FIELD OR WILDCA	r Natural	BUTTES		
4. TYPE O	F WELL				ed Methane Well: NO		*			5. UNIT or COMMUNI	TIZATION NATURAL		ENT NAM	1E
6. NAME C	OF OPERATOR				AS ONSHORE, L.P.					7. OPERATOR PHONE				
8. ADDRES	SS OF OPERAT				enver, CO, 80217					9. OPERATOR E-MAII	L	anadarko.	com	
	AL LEASE NUM		F.O. Box 1737		11. MINERAL OWNERS	SHIP				12. SURFACE OWNER		allauaiko.		
		JTU-01191A			FEDERAL INC	DIAN 🔵	STATE () FEE()	-	DIAN 🦲	STATE		EE 💮
		OWNER (if box 12								14. SURFACE OWNE		`	·	
15. ADDR	ESS OF SURFA	CE OWNER (if box	12 = 'fee')							16. SURFACE OWNE	R E-MAIL	(if box 12	= 'fee')	
	N ALLOTTEE OI	R TRIBE NAME			18. INTEND TO COMM MULTIPLE FORMATIO		RODUCTION	FROM		19. SLANT				
(,				YES (Submit C	Commingl	ling Applicati	on) NO [VERTICAL DII	RECTION	AL 📵 F	IORIZON	TAL 🔵
20. LOC	ATION OF WELL			FOO	OTAGES	QTI	R-QTR	SECT	ION	TOWNSHIP	R	ANGE	МЕ	RIDIAN
LOCATIO	N AT SURFACE		6	80 FSL	_ 2069 FEL	S	SWSE	3		10.0 S	2:	2.0 E		S
Top of U	ppermost Prod	ucing Zone	2	256 FS	L 500 FEL	S	SESE	3		10.0 S	2:	2.0 E		S
At Total	Depth			256 FS	L 500 FEL	s	SESE	3		10.0 S	2:	2.0 E		S
21. COUN	TY	UINTAH			22. DISTANCE TO NEA	AREST LE 25		eet)		23. NUMBER OF ACR	ES IN DR		Т	
					25. DISTANCE TO NEA (Applied For Drilling		leted)	POOL		26. PROPOSED DEPT		TVD: 879	6	
27. ELEV	ATION - GROUN	D LEVEL 5279			28. BOND NUMBER	WYB00	00291			29. SOURCE OF DRIL WATER RIGHTS APPR		MBER IF A	PPLICAB	LE
		02.0			Hole, Casing			rmation						
String	Hole Size	Casing Size	Length	Wei	_		Max Mu			Cement		Sacks	Yield	Weight
Surf	11	8.625	0 - 2490	28	3.0 J-55 LT8	&C	0.2	2		Type V Class G		180 270	1.15	15.8 15.8
Prod	7.875	4.5	0 - 9130	11	I.6 I-80 LT	&C	12.	5	Pren	nium Lite High Stre	ngth	300	3.38	12.0
										50/50 Poz		1260	1.31	14.3
					А	ATTACHI	MENTS							
	VER	IFY THE FOLLO	WING ARE A	TTAC	HED IN ACCORDAN	NCE WIT	H THE UT	AH OIL AN	D GAS	CONSERVATION G	ENERA	L RULES		
w w	ELL PLAT OR M	AP PREPARED BY	LICENSED SUR	VEYOR	R OR ENGINEER		сом	PLETE DRIL	LING PI	LAN				
AF	FIDAVIT OF STA	TUS OF SURFACE	OWNER AGREE	EMENT	(IF FEE SURFACE)		FORM	15. IF OPER	RATOR IS	S OTHER THAN THE L	EASE OW	NER		
I ✓ DIF	RECTIONAL SUI	RVEY PLAN (IF DIR	ECTIONALLY C	R HO	RIZONTALLY DRILLED))	торо	GRAPHICA	L MAP					
NAME Gi	na Becker			1	FITLE Regulatory Analy	/st II			PHON	E 720 929-6086				
SIGNATU	RE			-	DATE 07/06/2012				EMAIL	. gina.becker@anadark	o.com			
	ber assigned)4752939(0000		4	APPROVAL				Bro	occill				
									Perm	nit Manager				

NBU 1022-30 Pad Drilling Program
1 of 7

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 1022-3P4CS

Surface: 680 FSL / 2069 FEL SWSE BHL: 256 FSL / 500 FEL SESE

Section 3 T10S R22E

Uintah County, Utah Mineral Lease: UTU-01191A

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. <u>Estimated Tops of Important Geologic Markers</u>: <u>Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations</u>:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta Green River Birds Nest Mahogany Wasatch Mesaverde Sego	0 - Surface 1,226' 1,489' 2,038' 4,314' 6,662' 8,796'	Water Water Gas Gas Gas
TVD	8,796'	
TD	9.130'	

3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the attached Drilling Program

4. <u>Proposed Casing & Cementing Program:</u>

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. Evaluation Program:

Please refer to the attached Drilling Program

NBU 1022-3O Pad Drilling Program 2 of 7

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8796' TVD, approximately equals 5,629 psi 0.64 psi/ft = actual bottomhole gradient

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,682 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. <u>Anticipated Starting Dates:</u>

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program. Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- · Blowout Prevention Equipment (BOPE) requirements;
- · Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

NBU 1022-3O Pad Drilling Program
3 of 7

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

2/15/2012

NBU 1022-3O Pad Drilling Program
4 of 7

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

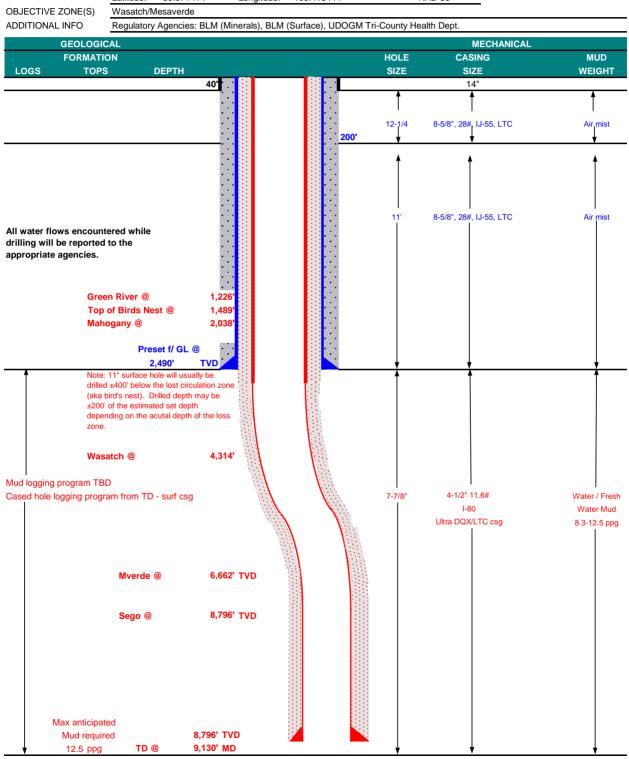
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KER	R-McGEE O	IL & GAS ONSH	HORE LP		DATE	Februar	y 15, 2012	
WELL NAME NB	J 1022-3F	4CS			TD	8,796'	TVD	9,130' MD
FIELD Natural Butte	S	COUNTY	Uintah	STATE Uta	h	FINISH	HED ELEVATION	5278.5
SURFACE LOCATION	SWSE	680 FSL	2069 FEL	Sec 3	T 10S	R 22E		
	Latitude:	39.972570	Longitud	e: -109.42	4043		NAD 83	
BTM HOLE LOCATION	SESE	256 FSL	500 FEL	Sec 3	T 10S	R 22E		
	Latitude:	39.971414	Longitud	e: -109.41	8444		NAD 83	
OBJECTIVE ZONE(S)	Wasatch/M	1esaverde				•		
		A : DIM	(1.4: L \ D	111/0		. T : O :	II 141 B +	



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KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CONDUCTOR

PRODUCTION

SURFACE

CASING PROGRAM

									LTC	DQX
SIZE	INTE	RVAL		WT.	GR.	CPLG.	BURST	COLLA	APSE	TENSION
14"	0-	-40'								
							3,390	1,880	348,000	N/A
8-5/8"	0	to	2,490	28.00	IJ-55	LTC	2.17	1.61	5.70	N/A
							7,780	6,350	223,000	267,035
4-1/2"	0	to	5,000	11.60	I-80	DQX	1.11	1.11		3.12
4-1/2"	5,000	to	9,130'	11.60	I-80	LTC	1.11	1.11	5.75	

Surface Casing:

(Burst Assumptions: TD =

12.5 ppg)

0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above (Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @

7000 psi)

0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1		+ 0.25 pps flocele				
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
		+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water	to surface,	option 2 w	ill be utilized	
Option 2 LEAD	1,990'	65/35 Poz + 6% Gel + 10 pps gilsonite	180	35%	11.00	3.82
		+ 0.25 pps Flocele + 3% salt BWOW				
TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
		+ 0.25 pps flocele				
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION LEAD	3,810'	Premium Lite II +0.25 pps	300	35%	12.00	3.38
		celloflake + 5 pps gilsonite + 10% gel				
		+ 0.5% extender				
TAIL	5,320'	50/50 Poz/G + 10% salt + 2% gel	1,260	35%	14.30	1.31
		+ 0.1% R-3				

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE

Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe

PRODUCTION

Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well.

1 centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

	Surveys will be taken at 1,000' minimum intervals.	
	Most rigs have PVT System for mud monitoring. I	PVT is available, visual monitoring will be utilized.
DRILLING	ENGINEER:	DATE:
	Nick Spence / [ny Showers / Chad Loesel
DRILLING	SUPERINTENDENT:	DATE:

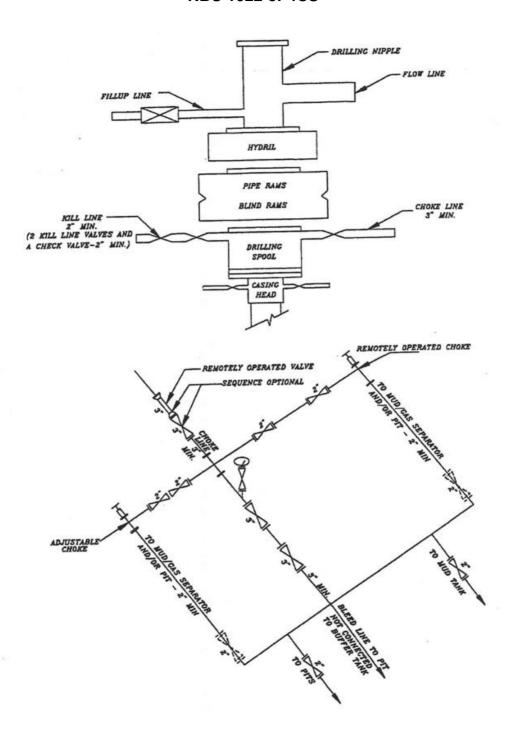
Kenny Gathings / Lovel Young

NBU 1022-30 Pad- Directional Drilling Program (3 wells) Approved by Drilling- 021612.xlsx

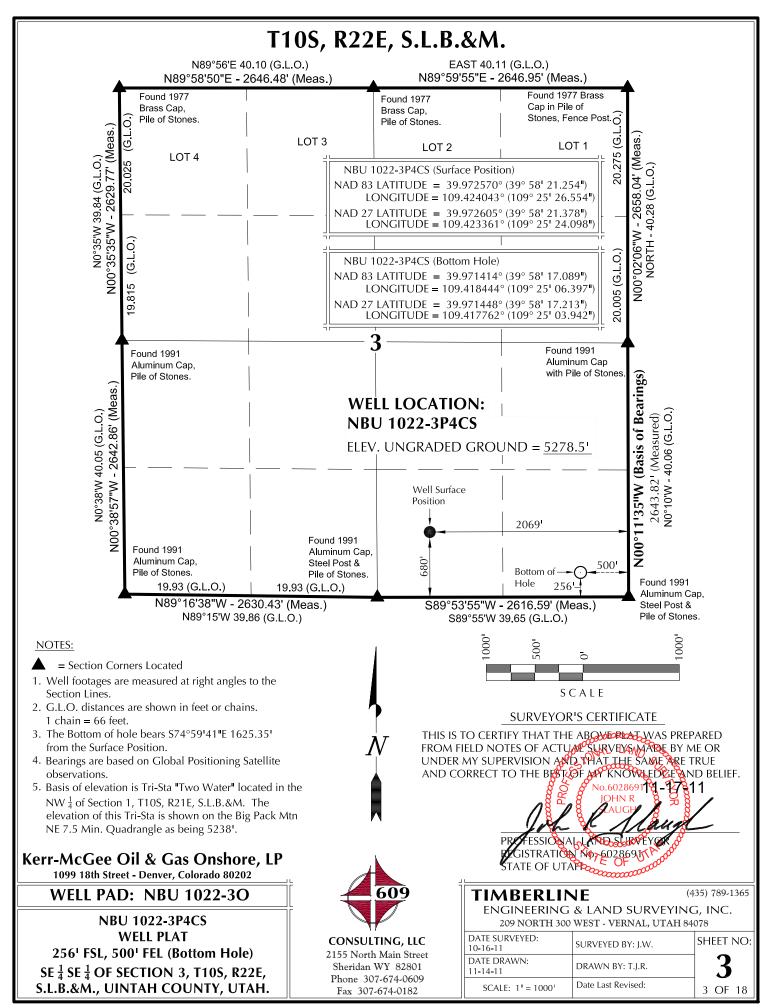
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^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

EXHIBIT A NBU 1022-3P4CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK



			SURFACE PO	SITION					В	OTTOM HOLE		
WELL NAME		D83		NAD27				NAD	83	NAE		
NBU	39°58'21.059'	LONGITU 109°25'26		.183" 109°25		660' FSL	LATIT 39°58'1		LONGITUDE 109°25'23.406"	LATITUDE	LONGITUDE 109°25'20.950"	
1022-3O4CS	39.972516°	109 23 26	39.97255	51° 109.42	3350°	2065' FEL	39.9709		109 23 23.406 109.423168°	39.971032°	109 23 20.930 109.422486°	1825' FEL
NBU 1022 204PS	39°58'21.156' 39.972543°			.280" 109°25		670' FSL	39°58'1 39.9718		109°25'23.700"	39°58'18.826" 39.971896°	109°25'21.244"	
1022-3O4BS NBU	39.9/2543° 39°58'21.254'	109.42403 109°25'26			3355° '24.098"	2067' FEL 680' FSL	39.9/18 39°58'1		109.423250° 109°25'06.397"		109.422568° 109°25'03.942"	1847' FEL 256' FSL
1022-3P4CS	39.972570°	109.42404	39.97260	05° 109.42	3361°	2069¹ FEL	39.9714	114°	109.418444°	39.971448°	109.417762°	500' FEL
NBU 1022-3P4BS	39°58'21.352' 39.972598°	109°25'26 109.42404		1.03 =3	'24.118" 3366°	689' FSL 2070' FEL	39°58'2 39.9722		109°25'06.358" 109.418433°	39°58'20.364" 39.972323°	109°25'03.902" 109.417751°	575' FSL 496' FEL
NBU	39°58'21.449'	109°25'26	.594" 39°58'21	.573" 109°25	24.138"	699' FSL	39°58'2	3.540" -	109°25'06.344"		109°25'03.889"	909' FSL
NBU	39.972625° 39°58'21.546'	109.42405 109°25'26			3372° '24.158"	2072' FEL 709' FSL	39.9732 39°58'2		109.418429° 109°25'23.353"	39.973240° 39°58'22.037"	109.417747° 109°25'20.897"	494' FEL 746' FSL
1022-3O1CS	39.972652°	109.42406	39.97268	36° 109.42		2073' FEL	39.9727		109.423154°	39.972788°	109.422471°	1819' FEL
NBU 290	39°58'20.271' 39.972298°	109°25'26 109.42397		1.00 =0	123.843" 123.843"	580' FSL 2049' FEL						
	33.37 2230	103.42337		TIVE COORD			Position	to Botto	m Hole			
WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	- 11		NORT		WELL NAM	E NORTH	EAST
NBU	-553.4	242.31	NBU	-248.3	220.8	NBU		-420.8	B' 1569.9'	NBU	-111.7'	1574.4'
1022-3O4CS WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	1022-3	SP4CS			1022-3P4BS	<u> </u>	
NBU	212.4	1576.8¹	NBU	37.2	254.0					1		
1022-3P1CS	212.4	1370.0	1022-3O1CS	37.2	254.0	<u></u>				1		
Az. to	EXISC. VV	168.902 ⁷⁸ `	31.4' NBU 1 121.4' NBU • 111.4' NBU • 101.4' NBU 8° 91.4' NBU 72° 81.4' NBU	J 1022-31)4BS	\ \	To Bour	303*56	=94.05861 5'29"E - 1578 Bottom Hol			.06° — — —
WELL WELLS - NE NBU	8th Street - De L PAD - I PAD INTE	NBU 10 RFEREN 4CS, NBU , NBU 10 & NBU 10	022-30 NCE PLAT U 1022-304 022-3P4BS, 022-3O1CS	BS,	2155 No	609 JITING, LL rth Main Stre n WY 8280	et	DATE 10-16-	209 NORTH 3 SURVEYED: -11 DRAWN:	G & LAND	SURVEYINC NAL, UTAH 840 Y: J.W.	,

S.L.B.&M., UINTAH COUNTY, UTAH

209 NORTH 300 WEST - VERNAL, UTAH 84078

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REVISED:

8

8 OF 18

LOCATED IN SECTION 3, T10S, R22E,

S.L.B.&M., UINTAH COUNTY, UTAH

ENGINEERING & LAND SURVEYING, INC.

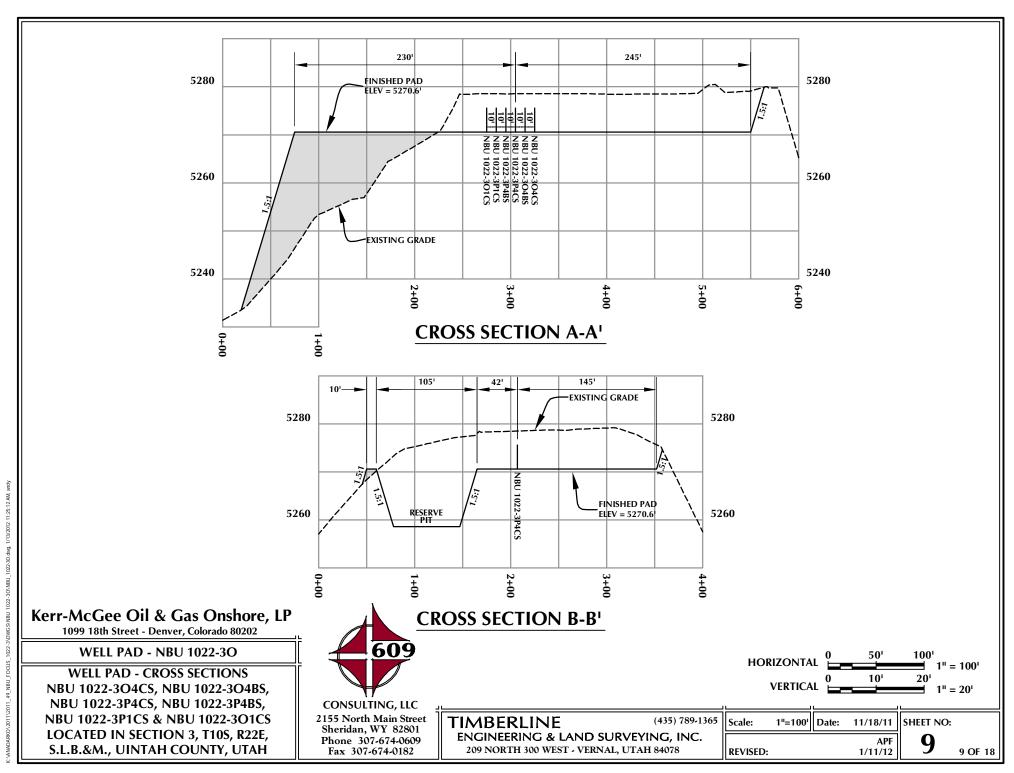
209 NORTH 300 WEST - VERNAL, UTAH 84078

Phone 307-674-0609 Fax 307-674-0182

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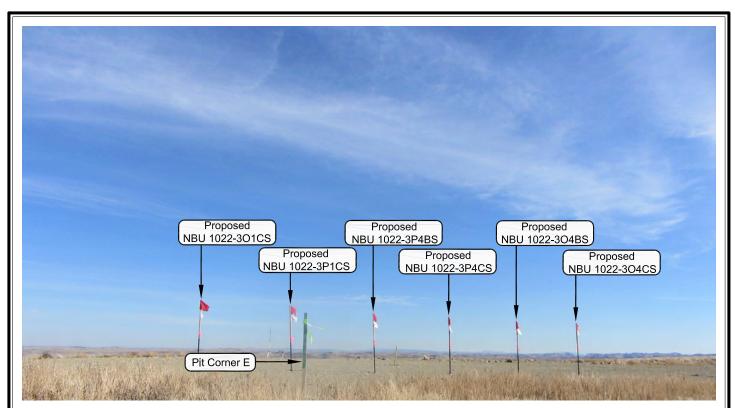


PHOTO VIEW: FROM PIT CORNER E TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: SOUTHERLY

Kerr-McGee Oil & Gas Onshore, LP 1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-30

LOCATION PHOTOS
NBU 1022-304CS, NBU 1022-304BS,
NBU 1022-3P4CS, NBU 1022-3P4BS,
NBU 1022-3P1CS & NBU 1022-301CS
LOCATED IN SECTION 3, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH.



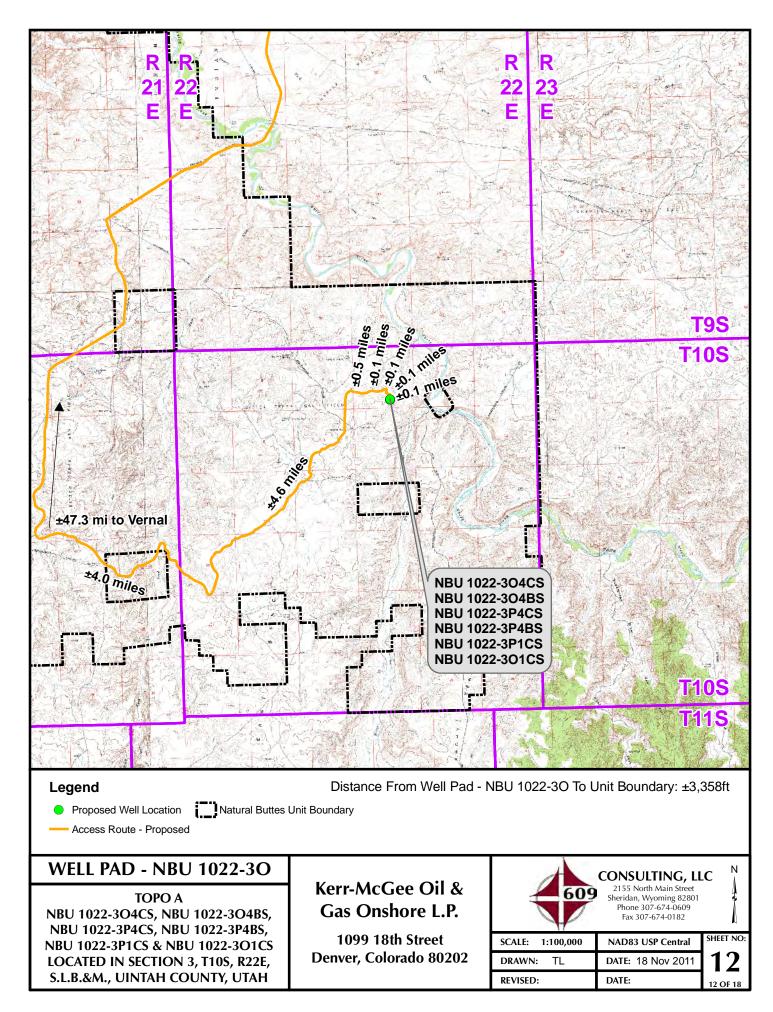
CONSULTING, LLC 2155 North Main Street Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

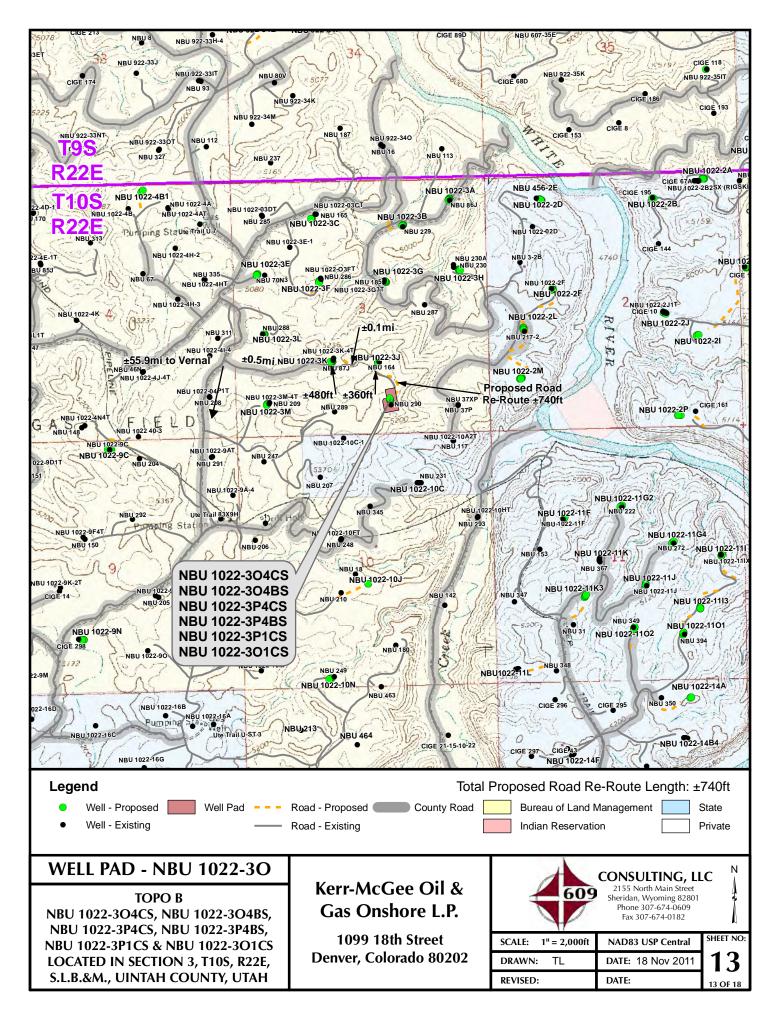
TIMBERLINE

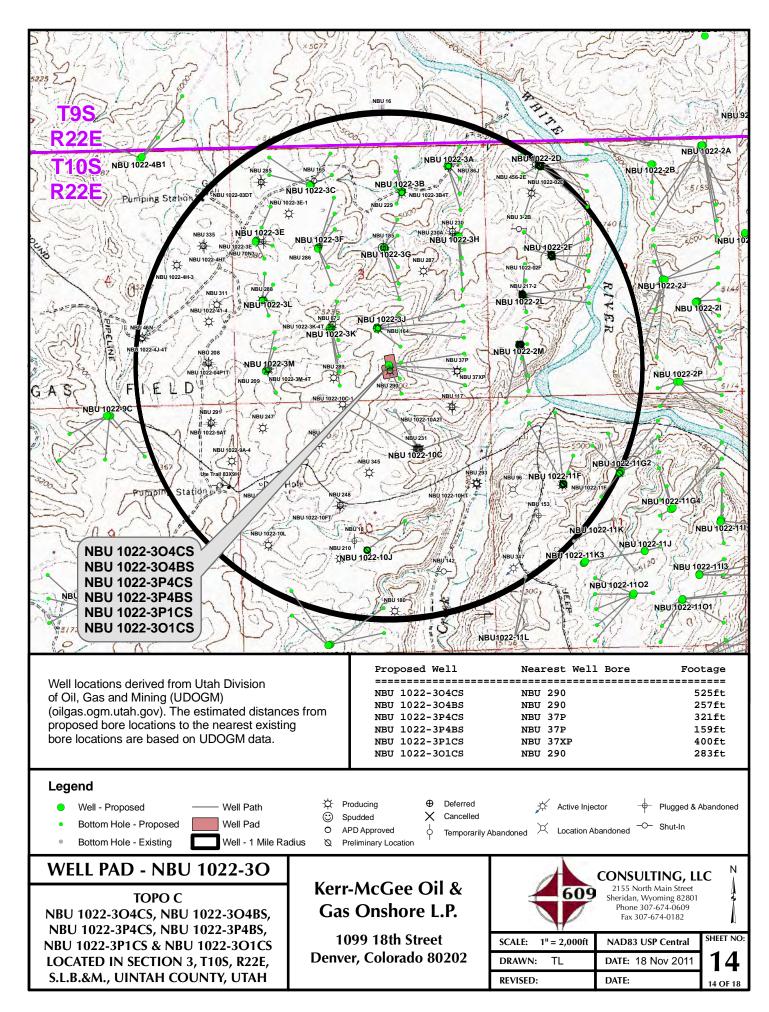
(435) 789-1365

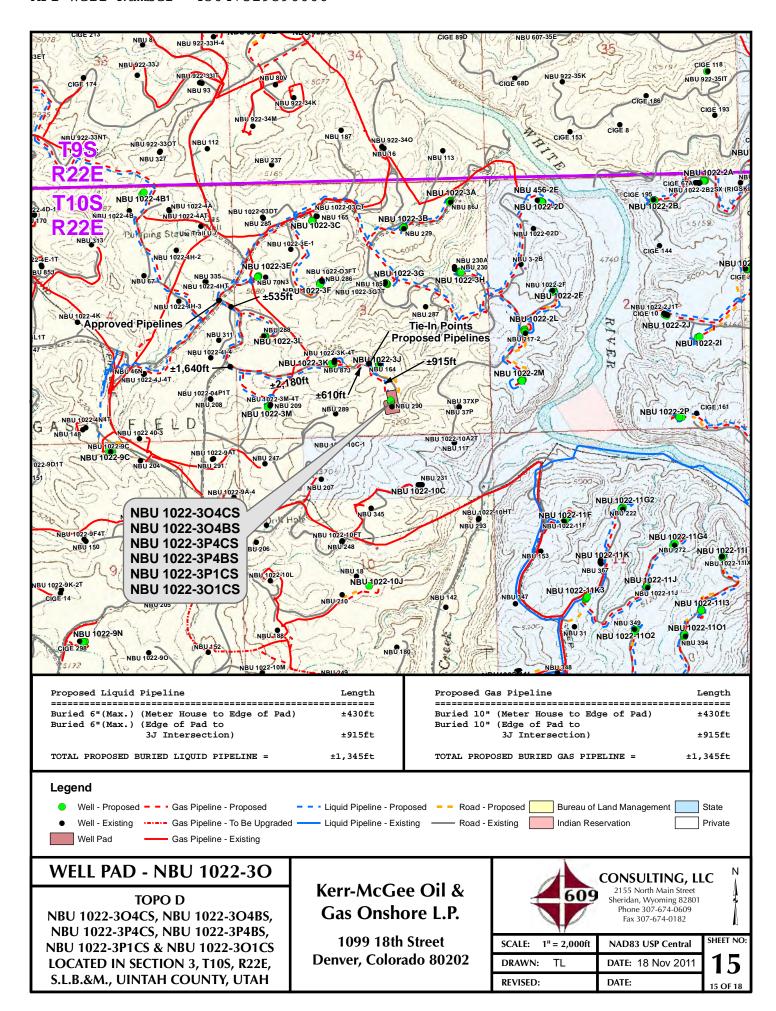
ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

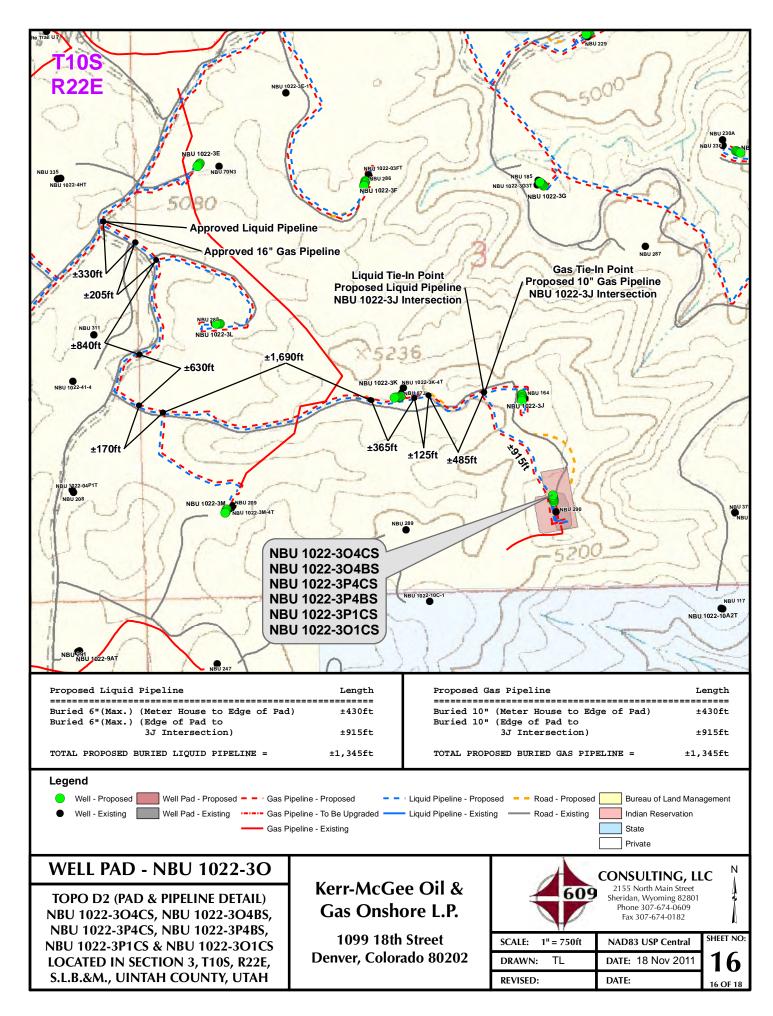
DATE PHOTOS TAKEN: 10-16-11	PHOTOS TAKEN BY: J.W.	SHEET NO:
DATE DRAWN: 11-14-11	DRAWN BY: T.J.R.	11
Date Last Revised:		11 OF 18

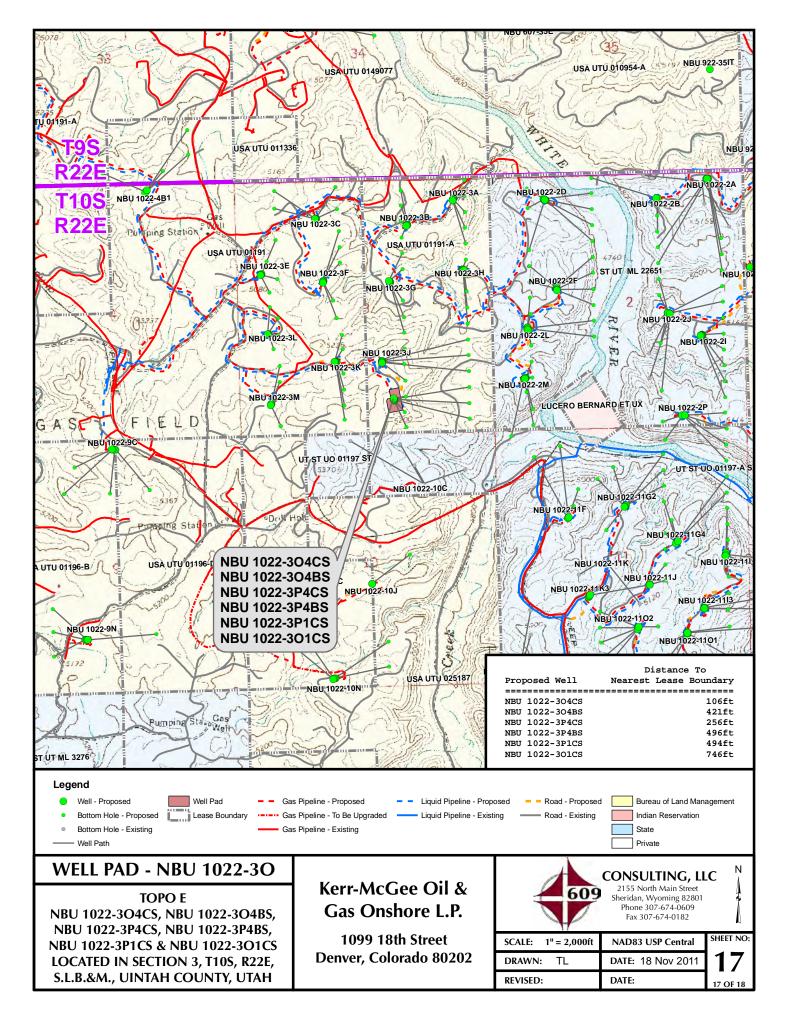












Kerr-McGee Oil & Gas Onshore, LP WELL PAD – NBU 1022-3O WELLS - NBU 1022-3O4CS, NBU 1022-3O4BS, NBU 1022-3P4CS, NBU 1022-3P4BS, NBU 1022-3P1CS & NBU 1022-3O1CS Section 3, T10S, R22E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 23.8 miles to the intersection of the Bitter Creek Road (County B Road 4120). Exit left and proceed in a southeasterly direction along the Bitter Creek Road approximately 4.0 miles to a Class D County Road to the northeast. Exit left and proceed in a northeasterly direction along the Class D County Road approximately 4.6 miles to a second Class D County Road to the east. Exit right and proceed in an easterly direction along the second Class D County Road approximately 0.5 miles to the proposed NBU 1022-3K well pad. Proceed in an easterly direction through the proposed NBU 1022-3K well pad approximately 480 feet to an existing service road to the east. Proceed easterly direction along the service road approximately in an 0.1 miles to the proposed NBU 1022-3J well pad. Proceed in a southeasterly direction through the NBU 1022-3J well pad approximately 360 feet to the proposed access road to the southeast. Follow road flags in a southeasterly, then southwesterly direction approximately 740 feet to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 56.7 miles in a southerly direction.

SHEET 18 OF 18

API Well Number: 43047 Bib get 9 OUTAB - UTM (feet), NAD27, Zone 12N

Scientific Drilling Rocky Mountain Operations

Vertical Section at 104.02° (1500 ft/in)

Site: NBU 1022-30 Well: NBU 1022-3P4CS

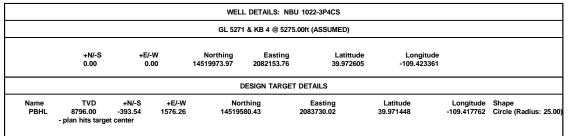
Wellbore: OH Design: PLAN #1

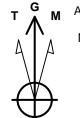


Plan: PLAN #1 (NBU 1022-3P4CS/OH)

Created By: Gabe Kendall Date: 17:26, February 08 2012

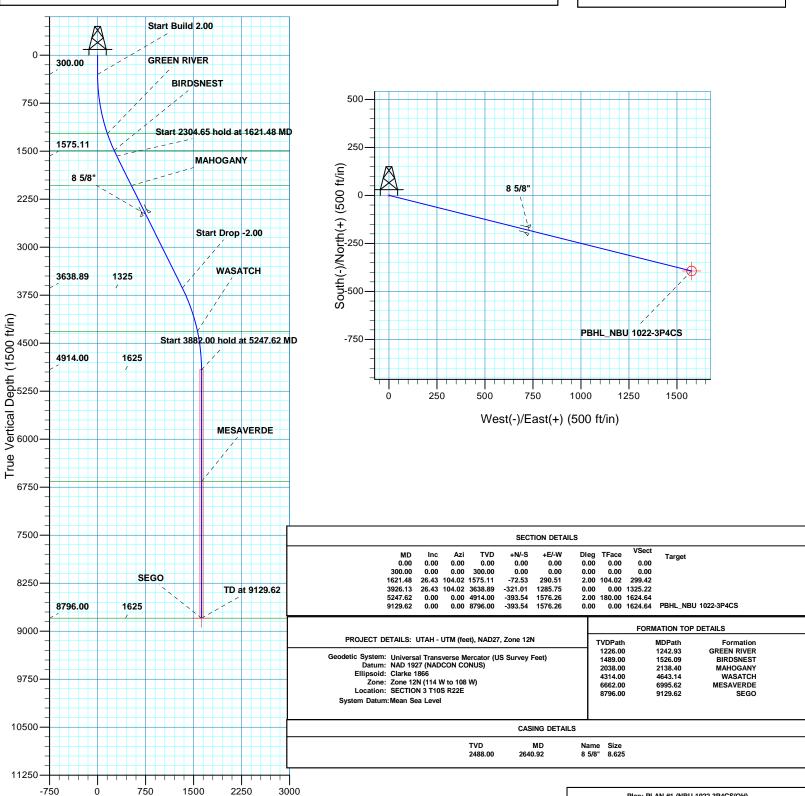
RECEI





Azimuths to Grid North True North: -1.01° Magnetic North: 9.94°

Magnetic Field Strength: 52257.5snT Dip Angle: 65.84° Date: 02/08/2012 Model: IGRF2010





US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N NBU 1022-3O NBU 1022-3P4CS

OH

Plan: PLAN #1

Standard Planning Report

08 February, 2012



RECEIVED: July 06, 2012



Design:

SDIPlanning Report



Database: EDM 5000.1 Single User Db

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 1022-3O

 Well:
 NBU 1022-3P4CS

 Wellbore:
 OH

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 1022-3P4CS

GL 5271 & KB 4 @ 5275.00ft (ASSUMED) GL 5271 & KB 4 @ 5275.00ft (ASSUMED)

Grid

Minimum Curvature

Project UTAH - UTM (feet), NAD27, Zone 12N

PLAN #1

Map System: Universal Transverse Mercator (US Survey Feet)

Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: Zone 12N (114 W to 108 W)

Mean Sea Level

Site NBU 1022-30, SECTION 3 T10S R22E

Northing: 14,519,954.37 usft Site Position: Latitude: 39.972551 From: Lat/Long Easting: 2,082,157.19 usft Longitude: -109.423350 **Position Uncertainty:** 0.00 ft Slot Radius: **Grid Convergence:** 1.01 13.200 in

System Datum:

Well NBU 1022-3P4CS, 680 FSL 2069 FEL

 Well Position
 +N/-S
 19.61 ft
 Northing:
 14,519,973.98 usft
 Latitude:
 39.972605

 +E/-W
 -3.43 ft
 Easting:
 2,082,153.76 usft
 Longitude:
 -109.423361

Position Uncertainty 0.00 ft Wellhead Elevation: Ground Level: 5,271.00 ft

Wellbore ОН Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (nT) (°) (°) IGRF2010 02/08/12 10.96 65.84 52.258

PLAN #1 Design **Audit Notes:** Version: Phase: PLAN Tie On Depth: 0.00 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 104.02

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,621.48	26.43	104.02	1,575.11	-72.53	290.51	2.00	2.00	0.00	104.02	
3,926.13	26.43	104.02	3,638.89	-321.01	1,285.75	0.00	0.00	0.00	0.00	
5,247.62	0.00	0.00	4,914.00	-393.54	1,576.26	2.00	-2.00	0.00	180.00	
9,129.62	0.00	0.00	8,796.00	-393.54	1,576.26	0.00	0.00	0.00	0.00 F	BHL_NBU 1022-3P4



SDI **Planning Report**



EDM 5000.1 Single User Db Database: Company: Project:

US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N

NBU 1022-30 Site: Well: NBU 1022-3P4CS

Wellbore: ОН Design: PLAN #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well NBU 1022-3P4CS

GL 5271 & KB 4 @ 5275.00ft (ASSUMED) GL 5271 & KB 4 @ 5275.00ft (ASSUMED)

Grid

Minimum Curvature

nned Surve	еу									
Meas Dep (ft	oth	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
			0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
	t Build 2.	00								
4	400.00	2.00	104.02	399.98	-0.42	1.69	1.75	2.00	2.00	0.00
E	500.00	4.00	104.02	499.84	-1.69	6.77	6.98	2.00	2.00	0.00
	00.00	6.00	104.02	599.45	-3.80	15.23	15.69	2.00	2.00	0.00
7	700.00	8.00	104.02	698.70	-6.75	27.05	27.88	2.00	2.00	0.00
8	300.00	10.00	104.02	797.47	-10.54	42.23	43.52	2.00	2.00	0.00
ç	900.00	12.00	104.02	895.62	-15.16	60.74	62.60	2.00	2.00	0.00
	300.00	12.00	101.02		10.10	00.7 1	02.00	2.00	2.00	0.00
1,0	00.00	14.00	104.02	993.06	-20.61	82.56	85.10	2.00	2.00	0.00
1.1	100.00	16.00	104.02	1,089.64	-26.88	107.67	110.98	2.00	2.00	0.00
	200.00	18.00	104.02	1,185.27	-33.96	136.04	140.21	2.00	2.00	0.00
	242.93	18.86	104.02	1,226.00	-37.25	149.21	153.79	2.00	2.00	0.00
			104.02	1,220.00	-31.25	149.∠1	100.79	2.00	2.00	0.00
GRE	EN RIVE	R								
1,3	300.00	20.00	104.02	1,279.82	-41.85	167.62	172.77	2.00	2.00	0.00
	400.00	22.00	104.02	1,373.17	-50.53	202.39	208.60	2.00	2.00	0.00
1,5	500.00	24.00	104.02	1,465.21	-59.99	240.30	247.67	2.00	2.00	0.00
1,5	526.09	24.52	104.02	1,489.00	-62.59	250.70	258.39	2.00	2.00	0.00
	SNEST									
		00.00	404.00	4 555 04	70.00	004.00	000.00	0.00	0.00	0.00
,	300.00	26.00	104.02	1,555.84	-70.23	281.30	289.93	2.00	2.00	0.00
1,6	321.48	26.43	104.02	1,575.11	-72.53	290.51	299.42	2.00	2.00	0.00
Start	t 2304.65	hold at 1621.48	B MD							
1,7	700.00	26.43	104.02	1,645.42	-81.00	324.41	334.37	0.00	0.00	0.00
1,8	300.00	26.43	104.02	1,734.97	-91.78	367.60	378.88	0.00	0.00	0.00
1.9	900.00	26.43	104.02	1,824.52	-102.56	410.78	423.39	0.00	0.00	0.00
	00.00	26.43	104.02	1,914.07	-113.34	453.97	467.90	0.00	0.00	0.00
2,1	100.00	26.43	104.02	2,003.62	-124.12	497.15	512.41	0.00	0.00	0.00
2.1	138.40	26.43	104.02	2,038.00	-128.26	513.73	529.50	0.00	0.00	0.00
	IOGANY			_,						
		00.40	404.00	0.000.47	404.00	540.00	FF0 00	0.00	0.00	0.00
,	200.00	26.43	104.02	2,093.17	-134.90	540.33	556.92	0.00	0.00	0.00
	300.00	26.43	104.02	2,182.71	-145.69	583.52	601.43	0.00	0.00	0.00
2,4	400.00	26.43	104.02	2,272.26	-156.47	626.70	645.94	0.00	0.00	0.00
	500.00	26.43	104.02	2,361.81	-167.25	669.89	690.45	0.00	0.00	0.00
	00.00	26.43	104.02	2,451.36	-178.03	713.07	734.96	0.00	0.00	0.00
2,6	640.92	26.43	104.02	2,488.00	-182.44	730.74	753.17	0.00	0.00	0.00
8 5/8	;"									
	700.00	26.43	104.02	2,540.91	-188.81	756.26	779.47	0.00	0.00	0.00
	300.00	26.43	104.02	2,630.45	-199.59	799.44	823.98	0.00	0.00	0.00
2,9	900.00	26.43	104.02	2,720.00	-210.38	842.62	868.49	0.00	0.00	0.00
3.0	00.00	26.43	104.02	2,809.55	-221.16	885.81	913.00	0.00	0.00	0.00
	100.00	26.43	104.02	2,899.10	-231.94	928.99	957.51	0.00	0.00	0.00
	200.00	26.43	104.02	2,988.65	-242.72	972.18	1,002.02	0.00	0.00	0.00
	300.00	26.43	104.02	3,078.20	-253.50	1,015.36	1,046.53	0.00	0.00	0.00
3,4	400.00	26.43	104.02	3,167.74	-264.28	1,058.55	1,091.04	0.00	0.00	0.00
-,-	500.00	26.43	104.02	3,257.29	-275.07	1,101.73	1,135.55	0.00	0.00	0.00
3,6	00.00	26.43	104.02	3,346.84	-285.85	1,144.91	1,180.06	0.00	0.00	0.00
3.7	700.00	26.43	104.02	3,436.39	-296.63	1,188.10	1,224.57	0.00	0.00	0.00
	300.00	26.43	104.02	3,525.94	-307.41	1,231.28	1,269.08	0.00	0.00	0.00
	900.00	26.43	104.02	3,615.48	-318.19	1,274.47	1,313.59	0.00	0.00	0.00
3,8	00.00	20.43	104.02	3,013.46	-310.19	1,2/4.4/	1,313.59	0.00	0.00	0.00
3.9	926.13	26.43	104.02	3,638.89	-321.01	1,285.75	1,325.22	0.00	0.00	0.00



SDIPlanning Report



Database: Company: Project: EDM 5000.1 Single User Db US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 1022-30

 Well:
 NBU 1022-3P4CS

Wellbore: OH
Design: PLAN #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 1022-3P4CS

GL 5271 & KB 4 @ 5275.00ft (ASSUMED) GL 5271 & KB 4 @ 5275.00ft (ASSUMED)

Grid

Minimum Curvature

sign.	1 2 4 4 7 7								
anned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,000.00	24.95	104.02	3,705.45	-328.77	1,316.82	1,357.24	2.00	-2.00	0.00
4,100.00	22.95	104.02	3,796.83	-338.60	1,356.21	1,397.84	2.00	-2.00	0.00
4,200.00	20.95	104.02	3,889.58	-347.66	1,392.47	1,435.22	2.00	-2.00	0.00
4,300.00	18.95	104.02	3,983.57	-355.92	1,425.58	1,469.34	2.00	-2.00	0.00
4,300.00	10.95	104.02	3,963.57	-333.92	1,425.56	1,409.34	2.00	-2.00	0.00
4,400.00	16.95	104.02	4,078.70	-363.39	1,455.48	1,500.16	2.00	-2.00	0.00
4,500.00	14.95	104.02	4,174.84	-370.04	1,482.15	1,527.64	2.00	-2.00	0.00
4,600.00	12.95	104.02	4,271.89	-375.89	1,505.54	1,551.75	2.00	-2.00	0.00
4,643.14	12.09	104.02	4,314.00	-378.15	1,514.61	1,561.11	2.00	-2.00	0.00
WASATCH									
4,700.00	10.95	104.02	4,369.71	-380.90	1,525.63	1,572.46	2.00	-2.00	0.00
4,800.00	8.95	104.02	4,468.20	-385.09	1,542.40	1,589.74	2.00	-2.00	0.00
4,900.00	6.95	104.02	4,567.24	-388.44	1,555.82	1,603.58	2.00	-2.00	0.00
5,000.00	4.95	104.02	4,666.69	-390.95	1,565.88	1,613.95	2.00	-2.00	0.00
5,100.00	2.95	104.02	4,766.45	-392.62	1,572.57	1,620.84	2.00	-2.00	0.00
5,200.00	0.95	104.02	4,866.39	-393.45	1,575.87	1,624.25	2.00	-2.00	0.00
5,247.62	0.00	0.00	4,914.00	-393.54	1,576.26	1,624.64	2.00	-2.00	-218.45
			4,914.00	-393.54	1,570.20	1,024.04	2.00	-2.00	-210.40
) hold at 5247.62		4 000 00	200 54	4 570 00	4.004.04	0.00	0.00	0.00
5,300.00	0.00	0.00	4,966.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
5,400.00	0.00	0.00	5,066.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
5,500.00	0.00	0.00	5,166.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
5,600.00	0.00	0.00	5,266.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
5,700.00	0.00	0.00	5,366.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
5,800.00	0.00	0.00	5,466.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
5,900.00	0.00	0.00	5,566.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
6,000.00	0.00	0.00	5,666.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
6,100.00	0.00	0.00	5,766.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
6,200.00	0.00	0.00	5,866.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
6,300.00	0.00	0.00	5,966.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
6,400.00	0.00	0.00	6,066.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
6,500.00	0.00	0.00	6,166.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
6,600.00	0.00	0.00	6,266.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
6,700.00	0.00	0.00	6,366.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
6,800.00	0.00	0.00	6,466.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
6,900.00	0.00	0.00	6,566.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
6,995.62	0.00	0.00	6,662.00	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
MESAVERDE		0.00	0,002.00	JJJ.J4	1,070.20	1,027.04	0.00	0.00	0.00
		0.00	6 666 20	-393.54	1 576 26	1 624 64	0.00	0.00	0.00
7,000.00	0.00	0.00	6,666.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
7,100.00	0.00	0.00	6,766.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
7,200.00	0.00	0.00	6,866.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
7,300.00	0.00	0.00	6,966.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
7,400.00	0.00	0.00	7,066.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
7,500.00	0.00	0.00	7,166.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
7,600.00	0.00	0.00	7,266.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
7,700.00	0.00	0.00	7,366.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
7,800.00	0.00	0.00	7,466.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
7,900.00	0.00	0.00	7,566.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
8,000.00	0.00	0.00	7,666.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
8,100.00	0.00	0.00	7,766.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
8,200.00	0.00	0.00	7,866.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
8,300.00	0.00	0.00	7,966.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
8,400.00	0.00	0.00	8,066.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
8,500.00	0.00	0.00	8,166.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
8,600.00	0.00	0.00	8,266.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00



SDI Planning Report



Database: Company: Project: EDM 5000.1 Single User Db US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 1022-30

 Well:
 NBU 1022-3P4CS

Wellbore: OH
Design: PLAN #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 1022-3P4CS

GL 5271 & KB 4 @ 5275.00ft (ASSUMED) GL 5271 & KB 4 @ 5275.00ft (ASSUMED)

Grid

Minimum Curvature

ned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,700.00	0.00	0.00	8,366.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
8,800.00	0.00	0.00	8,466.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
8,900.00	0.00	0.00	8,566.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
9,000.00	0.00	0.00	8,666.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
9,100.00	0.00	0.00	8,766.38	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
9,129.62	0.00	0.00	8,796.00	-393.54	1,576.26	1,624.64	0.00	0.00	0.00
SEGO - PBH	L_NBU 1022-3P	4CS							

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 1022-3P4C: - plan hits target cent - Circle (radius 25.00		0.00	8,796.00	-393.54	1,576.26	14,519,580.43	2,083,730.01	39.971448	-109.417762

Casing Points							
	Measured	Vertical			Casing	Hole	
	Depth	Depth			Diameter	Diameter	
	(ft)	(ft)		Name	(in)	(in)	
	2,640.92	2,488.00	8 5/8"		8.625	11.000	

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,242.93	1,226.00	GREEN RIVER				
	1,526.09	1,489.00	BIRDSNEST				
	2,138.40	2,038.00	MAHOGANY				
	4,643.14	4,314.00	WASATCH				
	6,995.62	6,662.00	MESAVERDE				
	9,129.62	8,796.00	SEGO				

Plan Annotations					
Mea	sured	Vertical	Local Coor	dinates	
De	epth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
	300.00	300.00	0.00	0.00	Start Build 2.00
1,	,621.48	1,575.11	-72.53	290.51	Start 2304.65 hold at 1621.48 MD
3	,926.13	3,638.89	-321.01	1,285.75	Start Drop -2.00
5	,247.62	4,914.00	-393.54	1,576.26	Start 3882.00 hold at 5247.62 MD
9	,129.62	8,796.00	-393.54	1,576.26	TD at 9129.62

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 1022-30 Pad

<u>API #</u>	7	NBU 1022-3O1CS					
	Surface: BHL:	709 FSL / 2073 FEL 746 FSL / 1819 FEL	SWSE SWSE	Lot Lot			
API #4304750168	PI #4304750168 NBU 1022-3O4BS						
	Surface: BHL:	670 FSL / 2067 FEL 421 FSL / 1847 FEL	SWSE SWSE	Lot Lot			
<u>API #</u>	ľ	NBU 1022-3O4CS					
	Surface: BHL:	660 FSL / 2065 FEL 106 FSL / 1825 FEL	SWSE SWSE	Lot Lot			
<u>API #</u>	1	NBU 1022-3P1CS					
	Surface: BHL:	699 FSL / 2072 FEL 909 FSL / 494 FEL	SWSE SESE	Lot Lot			
API #4304750173	1	NBU 1022-3P4BS					
	Surface: BHL:	689 FSL / 2070 FEL 575 FSL / 496 FEL	SWSE SESE	Lot Lot			
API # NBU 1022-3P4CS							
	Surface: BHL:	680 FSL / 2069 FEL 256 FSL / 500 FEL	SWSE SESE	Lot Lot			

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on December 6, 2011. Present were:

- · David Gordon, Tyler Cox BLM;
- · Jacob Dunham 609 Consulting;
- John Slaugh, Mitch Batty Timberline Engineering & Land Surveying, Inc.; and
- · Gina Becker, Charles Chase, Doyle Holmes, Casey McGee, Grizz Oleen, Sheila Wopsock Kerr-McGee

A. Existing Roads:

Existing roads consist of county and improved/unimproved access roads (two-tracks). In accordance with Onshore Order #1, Kerr-McGee will, in accordance with BMPs, improve or maintain existing roads in a condition that is the same as or better than before operations began. New or reconstructed proposed access roads are discussed in Section B.

The existing roads will be maintained in a safe and usable condition. Maintenance for existing roads will continue until final abandonment and reclamation of well pads and/or other facilities, as applicable. Road maintenance will include, but is not limited to, blading, ditching, and/or culvert installation and cleanout. To ensure safe operating conditions, gravel surfacing will be performed where excessive rutting or erosion may occur. Dust control will be performed as necessary to ensure safe operating conditions.

Roads, gathering lines and electrical distribution lines will occupy common disturbance corridors where possible. Where available, roadways will be used as the staging area and working space for installation of gathering lines. All

Surface Use Plan of Operations 2 of 13

disturbances located in the same corridor will overlap each other to the maximum extent possible, while maintaining safe and sound construction and installation practices. Unless otherwise approved or requested in site specific documents, in no case will the maximum disturbance widths of the access road and utility corridors exceed the widths specified in Part D of this document.

Please refer to Topo B, for existing roads.

B. New or Reconstructed Access Roads:

All new or reconstructed roads will be located, designed, and maintained to meet the standards of the BLM. BMPs. Described in the BLM's Surface Operating Standards for Oil and Gas Exploration and Development, 4th Edition (Gold Book) (USDI and USDA, 2007) and/or BLM Manual Section 9113 (1985) will be considered in consultation with the BLM in the design, construction, improvement and maintenance of all new or reconstructed roads. If a new road would cross a water of the United States, Kerr-McGee will adhere to the requirements of applicable Nationwide Permits of the Department of Army Corps of Engineers.

Each new well pad or pad expansion may require construction of a new access road and/or de-commissioning of an older road. Plans, routes, and distances for new roads and road improvements are provided in design packages, exhibits and maps for a project. Project-specific maps are submitted to depict the locations of existing, proposed, and/or decommissioned and include the locations for supporting structures, including, but not limited to, culverts, bridges, low water crossings, range infrastructure, and haul routes, as per OSO 1. Designs for cuts and fills, including spoils source and storage areas, are provided with the road designs, as necessary.

Where safety objectives can be met. As applicable, Kerr-McGee may use unimproved and/or two-track roads for lease operations, to lessen total disturbance.

Road designs will be based on the road safety requirements, traffic characteristics, environmental conditions, and the vehicles the road is intended to carry. Generally, newly constructed unpaved lease roads will be crowned and ditched with the running surfaces of the roads approximately 12-18 feet wide and a total road corridor width not to exceed 45 feet, except where noted in the road design for a specific project. Maximum grade will generally not exceed 8%. Borrow ditches will be back sloped 3:1 or less. Construction BMPs will be employed to control onsite and offsite erosion.

Where topography would direct storm water runoff to an access road or well pad, drainage ditches or other common drainage control facilities, such as V- or wing-ditches, will be constructed to divert surface water runoff. Drainage features, including culverts, will be constructed or installed prior to commencing other operations, including drilling or facilities placement. Riprap will be placed at the inlet and outlet at the culvert(s), as necessary.

Prior to construction, new access road(s) will be staked according to the requirements of OSO 1. Construction activity will not be conducted using frozen or saturated materials or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur. Vegetative debris will not be placed in or under fill embankments.

New road maintenance will include, but is not limited to, blading, ditching, culvert installation and cleanout, gravel surfacing where excessive rutting or erosion may occur and dust control, as necessary to ensure safe operating conditions. All vehicular traffic, personnel movement, construction/restoration operations will be confined to the approved area and to existing roadways and/or access routes.

Snow removal will be conducted on an as-needed basis to accommodate safe travel. Snow removal will occur as necessary throughout the year, as will necessary drainage ditch construction. Removed snow may be stored on permitted well pads to reduce hauling distances and/or at the aerial extent of approved disturbance boundaries to facilitate snow removal for the remainder of the season.

If a county road crossing or encroachment permit is needed, it will be obtained prior to construction.

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NBU 1022-301CS/ 1022-304BS/ 1022-304CS/ 1022-3P1CS/ 1022-3P4BS/ 1022-3P4CS

The following segments are "on-lease"

±740' (0.14 miles) – Section 3 T10S R22E (SW/4 SE/4) – On-lease UTU01191, from the eastern edge of the pad re-routing northwesterly to merge with the existing access road. Please refer to Topo B and requested Engineered Road Designs. (Attached to APD)

C. Location of Existing Wells:

Refer to Topo Map C.

Location of Existing and/or Proposed Facilities:

This pad will expand the existing pad for the NBU 290, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on February 14, 2012. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

Should the well(s) prove productive, production facilities will be installed on the disturbed portion of each well pad. A berm will be constructed completely around production components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will generally be constructed of compacted subsoil or corrugated metal, and will hold the capacity of the largest tank and have sufficient freeboard to accomodate a 25 year rainfall event. This includes pumping units. Aboveground structures constructed or installed onsite for 6 months or longer, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with the BLM (typically Shadow Gray). A production facility layout is provided as part of a project-specific APD, ROW or NOS submission.

GAS GATHERING
Please refer to Exhibit A and Topo D2- Pad and Pipeline Detail.

The gas gathering pipeline material: Steel line pipe. Surface = Bare pipe. Buried = Coated with fusion bonded epoxy coating (or equivalent). The total gas gathering pipeline distance from the meter to the tie in point is $\pm 6,185$ ° and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±430' (0.08 miles) Section 3 T10S R22E (SW/4 SE/4) On-lease UTU-01191A, BLM surface, New 10" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
- ±915' (0.17 miles) Section 3 T10S R22E (SW/4 SE/4) On-lease UTU-01191A, BLM surface, New 10" buried gas gathering pipeline from the edge of the pad to tie-in to the proposed 10" gas gathering pipeline at the NBU 1022-3J intersection. Please refer to Exhibit A, Line 6.
- ±610' (0.12 miles) Section 3 T10S R22E (NE/4 SW/4) On-lease UTU-01191, BLM surface, New 10" buried gas gathering pipeline from the NBU 1022-3J intersection to tie-in to the proposed 16" buried gas gathering pipeline at the NBU 1022-3K pad. This pipeline will be used concurrently with the NBU 1022-3J Pad. Please refer to Exhibit A, Line 4.
- ±2, 055' (0.39 miles) Section 3 T10S R22E (N/2 SW/4) On-lease UTU-01191, BLM surface, New 16" buried gas gathering pipeline from the NBU 1022-3K to the NBU 1022-3M intersection. This pipeline will be used concurrently with the NBU 1022-3J and NBU 1022-3K pads. Please refer to Exhibit A, Line 3.
- ±1,640' (0.31 miles) Section 3 T10S R22E (NW/4 SW/4) On-lease UTU-01191, BLM surface, New 16" buried gas gathering pipeline from the NBU 1022-3M intersection with a short westerly bend into 10S, 22E, Section 4, then northeasterly to the NBU 1022-3L intersection in 10S, 22E, Section 3. This pipeline will be used concurrently with the NBU 1022-3J, NBU 1022-3K and NBU 1022-3M pads. Please refer to Exhibit A, Line 2.

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±535' (0.1 miles) – Section 3 T10S R22E (NW/4 SW/4) – On-lease UTU-01191, BLM surface, New 16" buried gas gathering pipeline from the NBU 1022-3L intersection to tie-in to the approved 16" gas pipeline located in 10S, 22E, Section 4. This pipeline will be used concurrently with the NBU 1022-3J, NBU 1022-3K, NBU 1022-3M and NBU 1022-3L pads. Please refer to Exhibit A, Line 1.

LIQUID GATHERING

Please refer to Exhibit B and Topo D2- Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 6,185$ ' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±430' (0.08 miles) Section 3 T10S R22E (SW/4 SE/4) On-lease UTU-01191A, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D Pad and Pipeline Detail.
- ±915' (0.17 miles) Section 3 T10S R22E (SW/4 SE/4) On-lease UTU-01191A, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to tie-in to the NBU 1022-3J intersection. Please refer to Exhibit B, Line 6.
- ±610' (0.12 miles) Section 3 T10S R22E (NE/4 SW/4) On-lease UTU-01191, BLM surface, New 6" buried liquid gathering pipeline from the NBU 1022-3J intersection to tie-in to the proposed 6" buried liquid gathering pipeline at the NBU 1022-3K pad. This pipeline will be used concurrently with the NBU 1022-3J Pad. Please refer to Exhibit B, Line 4.
- ±2,055' (0.39 miles) Section 3 T10S R22E (N/2 SW/4) On-lease UTU-01191, BLM surface, New 6" buried liquid gathering pipeline from the NBU 1022-3K to the NBU 1022-3M intersection. This pipeline will be used concurrently with the NBU 1022-3J and NBU 1022-3K pads. Please refer to Exhibit B, Line 3.
- ±1,640' (0.31 miles) Section 3 T10S R22E (NW/4 SW/4) On-lease UTU-01191, BLM surface, New 6" buried liquid gathering pipeline from the NBU 1022-3M intersection with a short westerly bend into 10S, 22E, Section 4, then northeasterly to the NBU 1022-3L intersection in 10S, 22E, Section 3. This pipeline will be used concurrently with the NBU 1022-3J, NBU 1022-3K and NBU 1022-3M pads. Please refer to Exhibit B, Line 2.
- ±535' (0.1 miles) Section 3 T10S R22E (NW/4 SW/4) On-lease UTU-01191, BLM surface, New 6" buried liquid gathering pipeline from the NBU 1022-3L intersection to tie-in to the approved liquid pipeline located in 10S, 22E, Section 4. This pipeline will be used concurrently with the NBU 1022-3J, NBU 1022-3K, NBU 1022-3M and NBU 1022-3L pads. Please refer to Exhibit B, Line 1.

Pipeline Gathering Construction

Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee. Gas gathering pipeline(s,) gas lift, or liquids pipelines may be constructed to lie on the surface or be buried. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. The area of disturbance during construction from the edge of road or well pad will typically be 30' in width. Where pipelines run cross country, the width of disturbance will typically be 45 ft for buried lines and 30 ft for surface lines. In addition, Kerr-McGee requests for a permanent 30' distrubance width that will be maintained for the portion adjacent to the road. The need for the 30' permanent distrubance width is for maintenance and repairs. Cross country permanent distrubance width also are required to be 30ft.

Above-ground installation will generally not require clearing of vegetation or blading of the surface, except where safety considerations necessitate earthwork. In some surface pipeline installation instances pipe cannot be constructed where it will lay. In these cases where an above-ground pipeline is constructed parallel and adjacent to a road, it will be welded/fused on the road and then lifted from the road to the pipeline route. In other cases where a pipeline route is not parallel and adjacent to a road (cross-country between sites), it will be welded/fused in place at a well pad, access road, or designated work area and pulled between connection locations with a suitable piece of equipment.

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Buried pipelines will generally be installed parallel and adjacent to existing and/or newly constructed roads and within the permitted disturbance corridor. Buried pipelines may vary from 2 inches (typically fuel gas lines) to 24 inches (typically transportation lines) in diameter, but 6 to 16 inches is typical for a buried gas line. The diameter of liquids pipelines may vary from 2 inches to 12 inches, but 6 inches is the typical diameter. Gas lift lines may vary from 2 to 12 inches in diameter, but 6-inch diameter pipes are generally used for gas lift. If two or more pipelines are present (gas gathering, gas lift, and fluids), they will share a common trench where possible.

Typically, to install a buried pipeline, topsoil will be removed, windrowed and placed on the non-working side of the route for later reclamation. Because working room is limited, the spoil may be spread out across the working side and construction will take place on the spoil. The working side of the corridor will be used for pipe stringing, bending, welding and equipment travel. Small areas on the working side displaying ruts or uneven ground will be groomed to facilitate the safe passage of equipment. After the pipelines are installed, spoil will be placed back into the trench, and the topsoil will be redistributed over the disturbed corridor prior to final reclamation. Typical depth of the trench will be 6 feet, but depths may vary according to site-specific conditions (presence of bedrock, etc.). The proposed trench width for the pipeline would range from 18-48 inches.

The pipeline will be welded along the proposed route and lowered into place. Trenching equipment will cut through the soil or into the bedrock and create good backfill, eliminating the need to remove large rocks. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically or hydrostatically tested before being placed into service. Routine vehicle traffic will be prevented from using pipeline routes as travel ways by posting signs at the route's intersection with an access road.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

If pipelines or roads encounter a drainage that could be subject to flooding or surface water during extreme precipitation events, Kerr-McGee will apply all applicable Army Corps mandates as well as the BLM's Hydraulic Considerations for Pipeline Crossings of Stream Channels (BLM Technical Note 423, April 2007). In addition, all stream and drainage crossings will be evaluated to determine the need for stream alteration permits from the State of Utah Division of Water Rights and if necessary, required permits will be secured. Similarly, where a road or pipeline crossing exists the pipe will be butt welded and buried to a depth between 24 and 48 inches or more. Dirt roads will be cut and restored to a condition equivalent to the existing condition. All Uintah County road encroachment and crossing permits, where applicable, will be obtained prior to crossing construction. In no case will pressure testing of pipelines result in discharge of liquids to the surface.

Pipeline signs will be installed along the route to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and lateral T's will be installed at various locations for production integrity and safety purposes.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to section J for more details regarding final reclamation.

When no longer deemed necessary by the operator, Kerr-McGee or it's successor will consult with the BLM, Vernal Field Office before terminating of the use of the pipeline(s).

The Anadarko Completions Transportation System (ACTS) information:

Please refer to Exhibit C for ACTs Lines

Kerr-McGee will use either a closed loop drilling system that will require one pit and one storage area to be constructed on the drilling pad or a traditional drilling operation with one pit. The storage area will be used to contain only the de-watered drill cuttings and will be lined and reclaimed according to traditional pit closure standards. The pit will be constructed to

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allow for completion operations. The completion operations pit is lined and will be used for the wells drilled on the pad or used as part of our Anadarko Completions Transportation (ACTS) system which is disussed in more detail below. Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completion pit.

If Kerr-McGee does not use a closed loop system, it will construct a drilling reserve pit to contain drill cuttings and for use in completion operations. Depending on the location of the pit, its relation to future drilling locations, the reserve/completion pit will be utilized for the completion of the wells on that pad and/or be used as part of our ACTS system.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The pit will be refurbished as follows when a traditional drill pit is used: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom or pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit.

All four sides of the completions pit will be fenced in according to standard pit fencing procedures. Netting will be installed over all pits.

Any hydrocarbons collected will be treated and sold at approved sales facilities. A loading rack with drip containment will also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit .

ACTS will require temporarily laying multiple 6" aluminum water transfer lines on the surface between either existing or refurbished reserve pits. Please see the attached ACTS exhibit C for placement of the proposed temporary lines. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads or pipeline corridors. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig. Kerr-McGee requests to keep the netted pit open for one year from first production of the first produced well on the pad. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim. If the pit is not needed for an entire year it will be backfilled and reclaimed earlier. Kerr-McGee understands that due to the temporary nature of this system, BLM considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BLM.

E. Location and Types of Water Supply:

Water for drilling and completion operations will be obtained from the following sources:

Permit # 49-2307	JD Field Services	Green River- Section 15, T2N, R22E
Permit # 49-2321	R.N. Industries	White River- Section 2, T10S, R24E
Permit # 49-2319	R.N. Industries	White River- Various Sources
Permit # 49-2320	R.N. Industries	Green River- Section 33, T8S, R23E

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

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F. Construction Materials:

Construction operations will typically be completed with native materials found on location. Construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source (described in site-specific documents). No construction materials will be removed from federal lands without prior approval from the BLM. A source location other than an on-location construction site will be designated either via a map or narrative within the project specific materials provided to the BLM.

G. Methods for Handling Waste:

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. Kerr-McGee also maintains a Spill Control and Countermeasure Plan, which includes notification requirements, including the BLM, for all reportable spills of oil, produced liquids, and hazardous materials.

Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, Kerr-McGee will comply with the notification requirements of NTL-3A. Drill cuttings and/or drilling fluids will be contained in the reserve/frac pit whether a closed loop system is used or not. Cuttings will be buried in pit(s) upon closure. Unless specifically approved by the BLM, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil storage areas and/or construction of berms, ditches, etc). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a reserve/completion pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by the BLM. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with an impermeable liner. The liner will be a synthetic material 30 mil or thicker. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. After evaporation and when dry, the reserve pit liners will be cut off, ripped and/or folded back (as safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

Where necessary and if conditions (freeboard, etc.) allow, produced liquids from newly completed wells may be temporarily disposed of into pits for a period not to exceed 90 days as per Onshore Order Number 7 (OSO 7). Subsequently, permanent approved produced water disposal methods will be employed in accordance with OSO 7 and/or as described in a Water Management Plan (WMP). Otherwise, fluids disposal locations and associated haul routes, for ROW consideration, are typically depicted on Topo A of individual projects. Revisions to the water source or method of transportation will be subject to written approval from the BLM.

Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after one year from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

NBU 1022-301CS/ 1022-304BS/ 1022-304CS/ 1022-3P1CS/ 1022-3P4BS/ 1022-3P4CS Surface Use Plan of Operations 8 of 13

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse (trash and other solid waste including cans, paper, cable, etc.) generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility. Immediately after removal of the drilling rig, all debris and other waste materials not contained within trash receptacles will be collected and removed from the well location.

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Hazardous materials may be contained in some grease or lubricants, solvents, acids, paint, and herbicides, among others as defined above. Kerr-McGee maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances that are used during the course of construction, drilling, completion, and production operations for this project. The transport, use, storage and handling of hazardous materials will follow procedures specified by federal and state regulations. Transportation of hazardous materials to the well location is regulated by the Department of Transportation (DOT) under 49 CFR, Parts 171-180. DOT regulations pertain to the packing, container handling, labeling, vehicle placarding, and other safety aspects.

Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time. Chemicals meeting the criteria for being an acutely hazardous material/substance or meet the quantities criteria per BLM Instruction Memorandum No. 93-344 will not be used.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities (crude oil/condensate, produced water). They may also be kept in limited quantities on drilling sites (barite, diesel fuel, cement, cottonseed hulls etc.) for short periods of time during drilling or completion activities.

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

Any produced water separated from recoverable condensate from the proposed well will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

API Well Number: 43047529390000

NBU 1022-301CS/ 1022-304BS/ 1022-304CS/ 1022-3P1CS/ 1022-3P4BS/ 1022-3P4CS Surface Use Plan of Operations 9 of 13

RNI in Sec. 5 T9S R22E NBU #159 in Sec. 35 T9S R21E Ace Oilfield in Sec. 2 T6S R20E MC&MC in Sec. 12 T6S R19E Pipeline Facility in Sec. 36 T9S R20E

Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E

Bonanza Evaporation Pond in Sec. 2 T10S R23E

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

NBU 159 SWD in Sec. 35 T9S R21E CIGE 112D SWD in Sec. 19 T9S R21E CIGE 114 SWD in Sec. 34 T9S R21E NBU 921-34K SWD in Sec. 34 T9S R21E NBU 921-33F SWD in Sec. 34 T9S R21E

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

The location, orientation and aerial extent of each drill pad, reserve/completion/flare pit (for closed loop or non-closed loop operations), access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure, proposed cuts and fills, and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment depending on whether a closed loop system is used. Surface distance may be less if using closed loop. But in either case, the area of distrubance will not exceed the maximum disturbance outlined in the attached exhibits.

For the protection of livestock and wildlife, all open pits and cellars will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Each well will utilize either a centralized tank battery, centralized fluids management system, or have tanks installed on its pad. Production/ Produced Liquid tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks will be kept reasonably free from surface accumulations of liquid hydrocarbons. The tanks are not to be used for disposal of liquids from additional sources without prior approval of BLM.

J. Plans for Surface Reclamation:

The surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. Interim reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation may include pit evaporation, fluid removal, pit solidification, re-contouring, ripping, spreading top soil, seeding, and/or weed control. Interim reclamation will be performed in accordance with OSO 1, or written notification

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NBU 1022-301CS/ 1022-304BS/ 1022-304CS/ 1022-3P1CS/ 1022-3P4BS/ 1022-3P4CS Surface Use Plan of Operations 10 of 13

will be provided to the BLM for approval. Where feasible, drilling locations, reserve pits, or access routes not utilized for production operations will be re-contoured to a natural appearance.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit. Disposal of pit fluids and linings is discussed in Section G.

Final Reclamation

Final reclamation will be performed for unproductive wells and after the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by Kerr-McGee. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. The BLM will be notified prior to commencement of reclamation operations. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring the site to the approximate contour that existed prior to pad construction, final grading will be conducted over the entire surface of the well site and access road. The area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers, where practical. The surface soil material will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep, where practical. The entire area will be uniformly covered with the depressions constructed perpendicular to the natural flow of water.

Reclamation of roads will be performed at the discretion of the BLM. All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded in accordance with the seeding specifications of the BLM.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to the BLM.

Measures Common to Interim and Final Reclamation

Soil preparation will be conducted using a disk for areas in need of more soil preparation following site preparation. This will provide primary soil tillage to a depth no greater than 6 inches. Prior to reseeding, compacted areas will be scarified by ripping or chiseling to loosen compacted soils, promote water infiltration, and improve soil aeration and root penetration.

Seeding will occur year-round as conditions allow and will typically be accomplished through the use of a no-till rangeland style seed drill with a "picker box" in order to seed "fluffy" seed. Where drill seeding is not the preferred method, seed will be broadcast and then raked into the ground at double the rate of drill seeding. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The seed mixes will be selected from a list provided by or approved by the BLM, or a specific seed mix will be proposed by Kerr-McGee to the BLM and used after its approval. The selected specific seed mix for each well location and road segment will be utilized while performing interim and final reclamation for each project. All seed will be certified and tags will be maintained by Kerr-McGee. Every effort will be made to obtain "cheat grass free seed".

2/16/2012

Surface Use Plan of Operations

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NBU 1022-301CS/ 1022-304BS/ 1022-304CS/ 1022-3P1CS/ 1022-3P4BS/ 1022-3P4CS

Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

Bonanza Area Mix	Pure Live Seed lbs/acre
Crested Wheat (Hycrest)	2
Bottlebrush Squirreltail	1
Western Wheatgrass	1
(Arriba)	
Indian Ricegrass	1
Fourwing Saltbush	2
Shadscale	2
Forage Kochia	0.25
Rocky Mountain Bee	0.5
Total	9.75

Additional soil amendments and/or stabilization may be required on sites with poor soils and/or excessive erosion potential. Where severe erosion can become a problem and/or the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. Slopes will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to: erosion control blankets, hydro-mulch, and/or bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage. Soil amendments such as "Sustain" (an organic fertilizer that will be applied at the rate 1,800 – 2,100 lbs/acre with seed) may also be dry broadcast or applied with hydro-seeding equipment.

Weed Control

All weed management will be done in accordance with the Vernal BLM Surface Disturbance Weed Policy. Noxious weeds will be controlled, as applicable, on project areas. Monitoring and management of noxious and/or invasive weeds of concern will be completed annually until the project is deemed successfully reclaimed by the surface management agency and/or owner according to the Anadarko Integrated Weed Management Plan. Noxious weed infestations will be mapped using a GPS unit and submitted to the BLM with information required in the Vernal BLM Surface Disturbance Weed Policy. If herbicide is to be applied it will be done according to an approved Pesticide Use Permit (PUP), inclusive of applicable locations. All pesticide applications will be recorded using a Pesticide Application Record (PAR) and will be submitted along with a Pesticide Use Report (PUR) annually prior to Dec. 31.

Monitoring

Monitoring of reclaimed project areas will be completed annually during the growing season and actions to ensure reclamation success will be taken as needed. During the first two growing seasons an ocular methodology will be used to determine the success of the reclamation activities. During the 3rd growing season a 200 point line intercept (quantitative) methodology will be used to obtain basal cover. The goal is to have the reclaimed area reach 30% basal cover when compared to the reference site. If after three growing seasons the area has not reached 30% basal cover, additional reclamation activities may be necessary. Monitoring will continue until the reclaimed area reaches 75% basal cover of desirable vegetation when compared to the reference site. (Green River District Reclamation Guidelines)

All monitoring reports will be submitted electronically to the Vernal BLM in the form of a geo-database no later than March 1st of the calendar year following the data collection.

K. Surface/Mineral Ownership:

United States of America Bureau of Land Management 170 South 500 East Vernal, UT 84078 (435)781-4400

L. Other Information:

2/16/2012

NBU 1022-301CS/ 1022-304BS/ 1022-304CS/ 1022-3P1CS/ 1022-3P4BS/ 1022-3P4CS

Onsite Specifics:

- NRS requested that the access road to the NBU 1022-3O pad be engineered
- Keep spoils out of drainage at corners 5 through 10.
- If not possible to place production facilities on NBU 1022-3J pad, use low profile tanks.
- Top Soil: Need to save 4" topsoil and will be move and put around the corner
- Need to obtain a storm water permit
- BMP on the pit use (waddles, hay bails or silt fence)

Cultural and Paleontological Resources

All personnel are strictly prohibited from collecting artifacts, any paleontological specimens or fossils, and from disturbing any significant cultural resources in the area. If artifacts, fossils, or any culturally sensitive materials are exposed or identified in the area of construction, all construction operations that would affect the newly discovered resource will cease, and Kerr-McGee will provide immediate notification to the BLM.

Resource Reports:

A Class I literature review was completed on February 1, 2012 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 11-404.

A paleontological reconnaissance survey was completed on February 3, 2012 by Intermountain Paleo Consultants. For additional details please refer to report IPC 11-202PRE.

Biological field survey was completed on June 15, 2011 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-693.

Proposed Action Annual Emissions Tables:

Table 1: Proposed Action Annual Emissions (tons/year) ¹							
Pollutant	Development	Production	Total				
NOx	3.8	0.12	3.92				
CO	2.2	0.11	2.31				
VOC	0.1	4.9	5				
SO ₂	0.005	0.0043	0.0093				
PM_{10}	1.7	0.11	1.81				
$PM_{2.5}$	0.4	0.025	0.425				
Benzene	2.2E-03	0.044	0.046				
Toluene	1.6E-03	0.103	0.105				
Ethylbenzene	3.4E-04	0.005	0.005				
Xylene	1.1E-03	0.076	0.077				
n-Hexane	1.7E-04	0.145	0.145				
Formaldehyde	1.3E-02	8.64E-05	1.31E-02				

¹ Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison						
Species	Proposed Action Production Emissions (ton/yr)	WRAP Phase III 2012 Uintah Basin Emission Inventory ^a (ton/yr)	to WRAP Phase			
NOx	23.52	16,547	0.14%			
VOC	30	127,495	0.02%			

^a http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html

Uintah Basin Data

API Well Number: 43047529390000

NBU 1022-301CS/ 1022-304BS/ 1022-304CS/ 1022-3P1CS/ 1022-3P4BS/ 1022-3P4CS Surface Use Plan of Operations 13 of 13

M. Lessee's or Operators' Representative & Certification:

Gina T. Becker Regulatory Analyst II Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6086 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Gina T.Becker

February 16, 2012

Date



Kerr-McGee Oil & Gas Onshore LP 1099 18TH STREET STE. 1800 DENVER, CO 80202 720-929-6708 • FAX 720-929-7708 E-MAIL: JOE.JOHNSON@ANADARKO.COM

February 21, 2012

Ms. Diana Mason Division of Oil, Gas and Mining P.O. Box 145801 Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11

NBU 1022-3P4CS

<u>T10S-R22E</u>

Section 3: SWSE/SESE Surface: 680' FSL, 2069' FEL Bottom Hole: 256' FSL, 500' FEL

Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Kerr-McGee's NBU 1022-3P4CS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

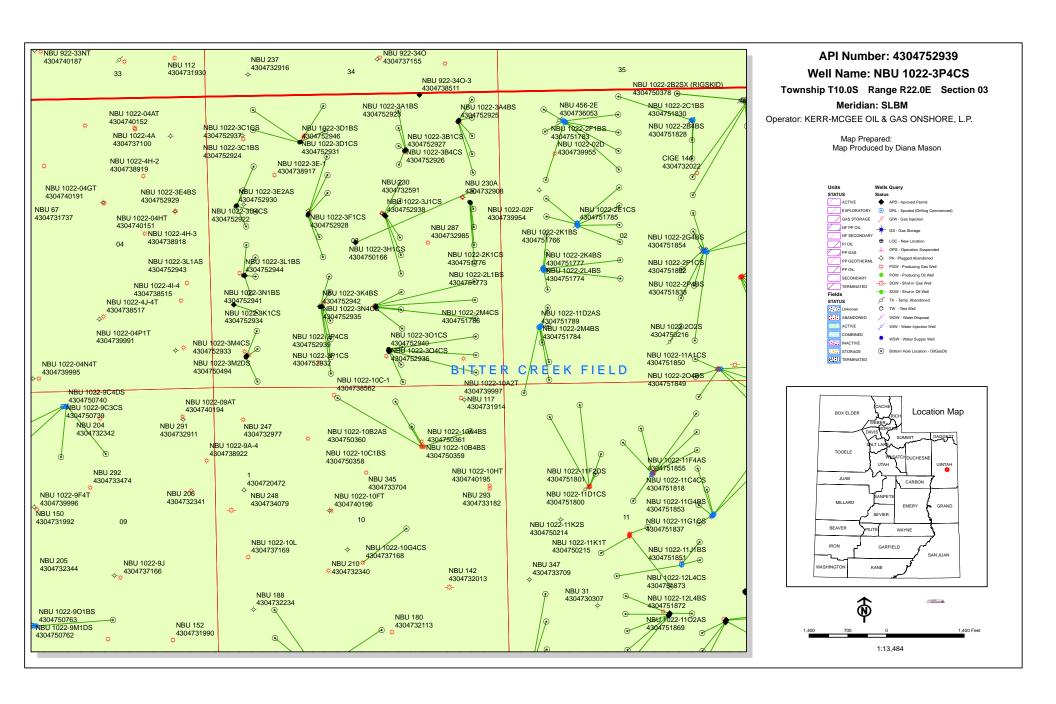
Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Joseph D. Johnson Landman

RECEIVED: July 06, 2012



API Well Number: 43047529390000

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

July 16, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2012 Plan of Development Natural Buttes Unit

Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2012 within the Natural Buttes Unit, Uintah County, Utah.

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

WELL PAD - NBU 1022-3H

43-047-52902 NBU 1022-3H4CS Sec 03 T10S R22E 1949 FNL 0549 FEL BHL Sec 03 T10S R22E 2396 FNL 0494 FEL Sec 03 T10S R22E 1939 FNL 0567 FEL 43-047-52906 NBU 1022-3I1CS BHL Sec 03 T10S R22E 2232 FSL 0494 FEL 43-047-52910 NBU 1022-3H4BS Sec 03 T10S R22E 1953 FNL 0540 FEL BHL Sec 03 T10S R22E 2065 FNL 0494 FEL 43-047-52914 NBU 1022-3I1BS Sec 03 T10S R22E 1944 FNL 0558 FEL BHL Sec 03 T10S R22E 2562 FSL 0494 FEL WELL PAD - NBU 1022-3G 43-047-52903 NBU 1022-3J1BS Sec 03 T10S R22E 2166 FNL 2090 FEL BHL Sec 03 T10S R22E 2402 FSL 1820 FEL 43-047-52907 NBU 1022-3G1CS Sec 03 T10S R22E 2153 FNL 2105 FEL BHL Sec 03 T10S R22E 1903 FNL 1821 FEL 43-047-52917 NBU 1022-3G1BS Sec 03 T10S R22E 2146 FNL 2112 FEL BHL Sec 03 T10S R22E 1572 FNL 1821 FEL 43-047-52938 NBU 1022-3J1CS Sec 03 T10S R22E 2159 FNL 2097 FEL BHL Sec 03 T10S R22E 2071 FSL 1820 FEL

RECEIVED: July 18, 2012

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

WELL PAD - NBU 1022-3F

43-047-52904 NBU 1022-3K1BS Sec 03 T10S R22E 2143 FNL 1787 FWL BHL Sec 03 T10S R22E 2399 FSL 2046 FWL

43-047-52913 NBU 1022-3F4CS Sec 03 T10S R22E 2133 FNL 1790 FWL BHL Sec 03 T10S R22E 2531 FNL 1987 FWL

43-047-52919 NBU 1022-3F1BS Sec 03 T10S R22E 2114 FNL 1795 FWL

BHL Sec 03 T10S R22E 1411 FNL 2159 FWL

43-047-52921 NBU 1022-3C4CS Sec 03 T10S R22E 2104 FNL 1798 FWL

BHL Sec 03 T10S R22E 1078 FNL 2153 FWL

43-047-52928 NBU 1022-3F1CS Sec 03 T10S R22E 2123 FNL 1793 FWL

BHL Sec 03 T10S R22E 1742 FNL 2152 FWL

WELL PAD - NBU 1022-3J

43-047-52905 NBU 1022-3J4BS Sec 03 T10S R22E 1505 FSL 2293 FEL

BHL Sec 03 T10S R22E 1740 FSL 1820 FEL

43-047-52908 NBU 1022-3I4BS Sec 03 T10S R22E 1496 FSL 2294 FEL

BHL Sec 03 T10S R22E 1901 FSL 0494 FEL

43-047-52912 NBU 1022-301BS Sec 03 T10S R22E 1456 FSL 2295 FEL

BHL Sec 03 T10S R22E 1077 FSL 1819 FEL

43-047-52915 NBU 1022-3P1BS Sec 03 T10S R22E 1466 FSL 2295 FEL

BHL Sec 03 T10S R22E 1240 FSL 0494 FEL

43-047-52916 NBU 1022-3I4CS Sec 03 T10S R22E 1486 FSL 2294 FEL

BHL Sec 03 T10S R22E 1571 FSL 0494 FEL

WELL PAD - NBU 1022-3A

43-047-52909 NBU 1022-3H1BS Sec 03 T10S R22E 0488 FNL 0748 FEL

BHL Sec 03 T10S R22E 1405 FNL 0495 FEL

43-047-52923 NBU 1022-3A1BS Sec 03 T10S R22E 0453 FNL 0728 FEL

BHL Sec 03 T10S R22E 0083 FNL 0488 FEL

43-047-52925 NBU 1022-3A4BS Sec 03 T10S R22E 0470 FNL 0738 FEL

BHL Sec 03 T10S R22E 0744 FNL 0495 FEL

WELL PAD - NBU 1022-3K

43-047-52918 NBU 1022-3N1CS Sec 03 T10S R22E 1500 FSL 2008 FWL

BHL Sec 03 T10S R22E 0913 FSL 2150 FWL

43-047-52934 NBU 1022-3K1CS Sec 03 T10S R22E 1493 FSL 1969 FWL

BHL Sec 03 T10S R22E 2047 FSL 2147 FWL

43-047-52935 NBU 1022-3N4CS Sec 03 T10S R22E 1496 FSL 1988 FWL

BHL Sec 03 T10S R22E 0287 FSL 2143 FWL

43-047-52941 NBU 1022-3N1BS Sec 03 T10S R22E 1501 FSL 2018 FWL

BHL Sec 03 T10S R22E 1244 FSL 2150 FWL

43-047-52942 NBU 1022-3K4BS Sec 03 T10S R22E 1494 FSL 1978 FWL

BHL Sec 03 T10S R22E 1760 FSL 2154 FWL

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API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

WELL PAD - NBU 1022-3E

43-047-52920 NBU 1022-3E4CS Sec 03 T10S R22E 1960 FNL 0490 FWL BHL Sec 03 T10S R22E 2324 FNL 0667 FWL

43-047-52922 NBU 1022-3D4CS Sec 03 T10S R22E 1939 FNL 0511 FWL

BHL Sec 03 T10S R22E 1245 FNL 0826 FWL

43-047-52929 NBU 1022-3E4BS Sec 03 T10S R22E 1953 FNL 0497 FWL

BHL Sec 03 T10S R22E 2057 FNL 0841 FWL

43-047-52930 NBU 1022-3E2AS Sec 03 T10S R22E 1946 FNL 0504 FWL

BHL Sec 03 T10S R22E 1676 FNL 0625 FWL

WELL PAD - NBU 1022-3C

43-047-52924 NBU 1022-3C1BS Sec 03 T10S R22E 0810 FNL 1682 FWL BHL Sec 03 T10S R22E 0166 FNL 2110 FWL

43-047-52931 NBU 1022-3D1CS Sec 03 T10S R22E 0817 FNL 1664 FWL

BHL Sec 03 T10S R22E 0581 FNL 0826 FWL

43-047-52937 NBU 1022-3C1CS Sec 03 T10S R22E 0806 FNL 1692 FWL

BHL Sec 03 T10S R22E 0619 FNL 2130 FWL

43-047-52946 NBU 1022-3D1BS Sec 03 T10S R22E 0813 FNL 1673 FWL

BHL Sec 03 T10S R22E 0224 FNL 0833 FWL

WELL PAD - NBU 1022-3B

43-047-52926 NBU 1022-3B4CS Sec 03 T10S R22E 0998 FNL 1724 FEL

BHL Sec 03 T10S R22E 1241 FNL 1822 FEL

43-047-52927 NBU 1022-3B1CS Sec 03 T10S R22E 0988 FNL 1706 FEL

BHL Sec 03 T10S R22E 0578 FNL 1822 FEL

WELL PAD - NBU 1022-30

43-047-52932 NBU 1022-3P1CS Sec 03 T10S R22E 0699 FSL 2072 FEL

BHL Sec 03 T10S R22E 0909 FSL 0494 FEL

43-047-52936 NBU 1022-304CS Sec 03 T10S R22E 0660 FSL 2065 FEL

BHL Sec 03 T10S R22E 0106 FSL 1825 FEL

43-047-52939 NBU 1022-3P4CS Sec 03 T10S R22E 0680 FSL 2069 FEL

BHL Sec 03 T10S R22E 0256 FSL 0500 FEL

43-047-52940 NBU 1022-301CS Sec 03 T10S R22E 0709 FSL 2073 FEL

BHL Sec 03 T10S R22E 0746 FSL 1819 FEL

WELL PAD - NBU 1022-3M

43-047-52933 NBU 1022-3M4CS Sec 03 T10S R22E 0607 FSL 0615 FWL

BHL Sec 03 T10S R22E 0163 FSL 0812 FWL

WELL PAD - NBU 1022-3L

43-047-52943 NBU 1022-3L1AS Sec 03 T10S R22E 2086 FSL 0607 FWL

BHL Sec 03 T10S R22E 2411 FSL 0825 FWL

43-047-52944 NBU 1022-3L1BS Sec 03 T10S R22E 2086 FSL 0597 FWL

BHL Sec 03 T10S R22E 2644 FSL 0665 FWL

Page 3

API Well Number: 43047529390000

Page 4

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard

Div. cn=Michael L. Coulthard, o=Bureau of Land Management,
ousBranch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2012.07.16 13:26:05-06:00'

MCoulthard:mc:7-16-12

RECEIVED: July 18, 2012

API Well Number: 43047529390000

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 7/6/2012 API NO. ASSIGNED: 43047529390000

WELL NAME: NBU 1022-3P4CS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) PHONE NUMBER: 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: SWSE 03 100S 220E **Permit Tech Review:**

> SURFACE: 0680 FSL 2069 FEL **Engineering Review:**

> **BOTTOM: 0256 FSL 0500 FEL** Geology Review:

COUNTY: UINTAH

LATITUDE: 39.97249 LONGITUDE: -109.42404 **UTM SURF EASTINGS: 634581.00** NORTHINGS: 4425893.00

FIELD NAME: NATURAL BUTTES LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-01191A PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal **COALBED METHANE: NO**

RECEIVED AND/OR REVIEWED: LOCATION AND SITING:

✓ PLAT R649-2-3.

Unit: NATURAL BUTTES Bond: FEDERAL - WYB000291

Potash R649-3-2. General

Oil Shale 190-5

Oil Shale 190-3 R649-3-3. Exception

Oil Shale 190-13 **Drilling Unit**

Board Cause No: Cause 173-14 Water Permit: 43-8496

Effective Date: 12/2/1999 **RDCC Review:**

Siting: Suspends General Siting Fee Surface Agreement

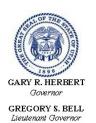
✓ Intent to Commingle R649-3-11. Directional Drill

Commingling Approved

Comments: Presite Completed

Stipulations:

3 - Commingling - ddoucet 4 - Federal Approval - dmason 15 - Directional - dmason 17 - Oil Shale 190-5(b) - dmason



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 1022-3P4CS
API Well Number: 43047529390000
Lease Number: UTU-01191A
Surface Owner: FEDERAL

Approval Date: 8/21/2012

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil

shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
 - Requests to Change Plans (Form 9) due prior to implementation
 - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
 - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas Sundry Number: 34762 API Well Number: 43047529390000

	STATE OF UTAH		FORM 9
1	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191A		
SUNDR	RY NOTICES AND REPORTS ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significantly deep reenter plugged wells, or to drill horizontal n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 1022-3P4CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047529390000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	PHC n Street, Suite 600, Denver, CO, 80217 377	ONE NUMBER: 720 929-6	9. FIELD and POOL or WILDCAT: 5NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0680 FSL 2069 FEL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 3 Township: 10.0S Range: 22.0E Meridian:	S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICATE N	ATURE OF NOTICE, REPOR	T, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
✓ SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud: 2/13/2013	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
2/13/2013		VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:		SI TA STATUS EXTENSION	APD EXTENSION
кероп Баге.		OTHER	
			OTHER:
MIRU TRIPLE A BU RAN 14" 36.7# SC	COMPLETED OPERATIONS. Clearly show all per CKET RIG. DRILLED 20" CONDUCHEDULE 10 CONDUCTOR PIPE. X. SPUD WELL LOCATION ON FOUR OF STATE OF	CTOR HOLE TO 40'. CEMENT WITH 28	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 15, 2013
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II	
SIGNATURE		DATE	
l N/A		2/14/2013	

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM

Operator:

KERR McGEE OIL & GAS ONSHORE LP

Operator Account Number: N 2995

Address:

P.O. Box 173779

city DENVER

state CO

Phone Number: (720) 929-6857

Well 1

API Number	Well	Name	QQ	Sec	Twp	Rng	County
4304752936	NBU 1022-304C	3	SWSE	3	108	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	S	Spud Date			tity Assignment Effective Date
В	99999	2900	2	2/12/2013		211	912013
Comments:							

MIRU TRIPLE A BUCKET RIG.

SPUD WELL LOCATION ON February 12, 2013 AT 10:00 HRS.

zip 80217

JSMVI

Well 2

API Number	Well	Well Name QQ Sec Twp Rng C		QQ Sec Twp		County	
4304750168	NBU 1022-3O4BS		SWSE	SWSE 3 10S		22E	UINTAH
Action Code	Current Entity Number	New Entity Number	s	Spud Date			ity Assignment Effective Date
В	99999	2900	2/12/2013		21	1912013	

Comments:

MIRU TRIPLE A BUCKET RIG.

SPUD WELL LOCATION ON February 12, 2013 AT 13:30 HRS.

NSMVE

Well 3

API Number	Well	Name	QQ	Sec	Twp	Rng	County
4304752939	NBU 1022-3P4CS		SWSE	3	108	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	s	pud Dat	te		tity Assignment Effective Date
B	99999	2900	2	2/13/201	3	21	19/2013

Comments:

MIRU TRIPLE A BUCKET RIG.

SPUD WELL LOCATION ON February 13, 2013 AT 07:30 HRS.

WSMVD

ACTION CODES:

A - Establish new entity for new well (single well only)

Add new well to existing entity (group or unit well)

C - Re-assign well from one existing entity to another existing entity

D - Re-assign well from one existing entity to a new en

E - Other (Explain in 'comments' section)

ECEIVED

Lindsey Frazier Name (Please Print)

Signature

REGULATORY ANALYST II

2/14/2013

Date

Title

FEB 1 9 2013

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM

Operator:

KERR McGEE OIL & GAS ONSHORE LP

Operator Account Number: N 2995

Address:

P.O. Box 173779

city DENVER

state CO

Phone Number: (720) 929-6857

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Comments:							

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SPUD WELL LOCATION ON February 12, 2013 AT 10:00 HRS.

zip 80217

JSMVI

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Comments:

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NSMVE

Well 3

API Number	Well	Name	QQ	Sec	Twp	Rng	County
4304752939	NBU 1022-3P4CS		SWSE	3	108	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	s	pud Dat	te		tity Assignment Effective Date
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Comments:

MIRU TRIPLE A BUCKET RIG.

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WSMVD

ACTION CODES:

A - Establish new entity for new well (single well only)

Add new well to existing entity (group or unit well)

C - Re-assign well from one existing entity to another existing entity

D - Re-assign well from one existing entity to a new en

E - Other (Explain in 'comments' section)

ECEIVED

Lindsey Frazier Name (Please Print)

Signature

REGULATORY ANALYST II

2/14/2013

Date

Title

FEB 1 9 2013

Form 3160-3 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED

FEB 2 7 2012

AUG 0 8 F2010 APPROVED OMB No. 1004-0136 Expires July 31, 2010

DIV. OF OIL, GAS & MINING

5. Lease Serial No. UTU01191A

	L.	
APPLICATION FOR PERMIT TO DRILL OR REENTER FRALL UT	A	6. If Indian, Allottee or Tribe Name

la. Type of Work: DRILL REENTER	,	7. If Unit or CA Agreement, Name and No. UTU63047A		
lb. Type of Well: ☐ Oil Well Gas Well ☐ Oth	ner 🔲 Single Zone 🔀 Multiple Zone	Lease Name and Well No. NBU 1022-3P4CS		
	GINA T BECKER ECKER@ANADARKO.COM	9. API Well No. 43-047-52939.		
3a. Address P.O. BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6086 Fx: 720-929-7086	10. Field and Pool, or Exploratory NATURAL BUTTES		
4. Location of Well (Report location clearly and in accorda	nce with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area		
At surface SWSE 680FSL 2069FEL 3	9.972570 N Lat, 109.424043 W Lon	Sec 3 T10S R22E Mer SLB		
At proposed prod. zone SESE 256FSL 500FEL 39.	971414 N Lat, 109.418444 W Lon			
14. Distance in miles and direction from nearest town or post of APPROXIMATELY 57 MILES SOUTHEAST OF	office* VERNAL, UTAH	12. County or Parish UINTAH 13. State UT		
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of Acres in Lease	17. Spacing Unit dedicated to this well		
256	1363.00			
18. Distance from proposed location to nearest well, drilling,	19. Proposed Depth	20. BLM/BIA Bond No. on file		
completed, applied for, on this lease, ft. 321	9130 MD 8796 TVD	WYB000291		
21. Elevations (Show whether DF, KB, RT, GL, etc. 5279 GL	22. Approximate date work will start 08/08/2012	23. Estimated duration 60-90 DAYS		
	24. Attachments			
The following, completed in accordance with the requirements o	f Onshore Oil and Gas Order No. 1, shall be attached to	this form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Office.) 	Item 20 above). em Lands, the 5. Operator certification	ons unless covered by an existing bond on file (see formation and/or plans as may be required by the		
25. Signature (Electronic Submission)	Name (Printed/Typed) GINA T BECKER Ph: 720-929-6086	Date 02/16/2012		
Title REGULATORY ANALYST II				
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczk	a AUG 0 2 2012		
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE			
Application approval does not warrant or certify the applicant ho operations thereon.	olds legal or equitable title to those rights in the subject le	ease which would entitle the applicant to conduct		
Conditions of approval, if any, are attached.	ONDITIONS OF APPROVAL ATTACHED			

Additional Operator Remarks (see next page)

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Electronic Submission #131127 verified by the BLM Well Information System For KERR-MCGEE OIL & GAS ONSHORE, sent to the Vernal

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United

NOTICE OF APPROVAL

UDOGM



UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE** 170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No:

API No:

Kerr-McGee Oil & Gas Onshore, LP

NBU 1022-3P4CS

43-047-52939

Location:

SWSE Sec. 3, T10S, R22E

Lease No:

Agreement:

UTU-01191A **Natural Buttes**

OFFICE NUMBER:

(435) 781-4400

OFFICE FAX NUMBER:

(435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 2 Well: NBU 1022-3P4CS 7/19/2012

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horse power must not emit more than 2 grams of NOx per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.
- All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 grams of NOx per horsepower-hour.
- The following will be used as standard operating procedures: Green completion or controlled VOC emissions methods with 90% efficiency for Oil or Gas Atmospheric Storage Tanks, VOC Venting controls or flaring, Glycol Dehydration and Amine Unites, Well Completion, Re-Completion, Venting, and Planned Blowdown Emissions.
- All reclamation activities will comply with the Green River Reclamation Guidelines
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established
- Noxious and invasive weeds will be controlled by the proponent throughout the area of project disturbance.
- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an
 integrated pest management program is applicable, coordination has been undertaken with the
 state and local management program (if existing). A copy of the pest management plan will be
 submitted for each project.
- A pesticide use proposal (PUP) will be obtained for the project, by the proponent if applicable.
- A permitted paleontologist is to be present to monitor construction at all well pads during all surface disturbing actives: examples include the following; building of the well pad, access road, and pipelines.

To maintain compliance with current cactus survey protocols, the following measures will be required

- 1. If construction does not occur within 4 years of the original survey date, new 100% clearance surveys will be required.
- 2. Prior to construction within 4 years of the original survey date, a spot check survey will be required during the year of construction. KMG and their respective 3rd party surveyor will refer to the current *Sclerocactus* Spot Check Survey Methods, to determine site specific survey distances and intensity levels.
- 3. Spot check reports will be reported to the BLM and the US Fish and Wildlife Service.
- 4. Construction will not commence until written approval is received from the BLM

Discovery Stipulation: Reinitiation of section 7 consultation with the USFWS will be sought immediately if any loss of plants or occupied habitat for Uinta Basin hookless cactus is anticipated as a result of project activities.

- Construction or drilling is not allowed from January 1 August 31 on the NBU 1022-30 pad to minimize impacts during golden eagle nesting.
- If it is anticipated that construction or drilling will occur during the given timing restriction, a BLM or qualified biologist shall be notified to conduct surveys for raptors. Depending upon the results of the surveys, permission to proceed may or may not be granted by the Authorized Officer.
- The best method to avoid entrainment is to pump from an off-channel location one that does not connect to the river during high spring flows. An infiltration gallery constructed in a BLM and Service approved location is best.
- If the pump head is located in the river channel where larval fish are known to occur, the following measures apply:
 - a. do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fishes:
 - b. limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present (April 1 to August 31); and
 - c. limit the amount of pumping, to the greatest extent possible, during the pre-dawn hours as larval drift studies indicate that this is a period of greatest daily activity.
- Screen all pump intakes with 3/32 inch mesh material.
- Approach velocities for intake structures will follow the National Marine Fisheries Service's document "Fish Screening Criteria for Anadromous Salmonids". For projects with an in-stream intake that operate in stream reaches where larval fish may be present, the approach velocity will not exceed 0.33 feet per second (ft/s).
- Report any fish impinged on the intake screen to the Service (801.975.3330) and the Utah Division of Wildlife Resources:

Northeastern Region 152 East 100 North, Vernal, UT 84078

Phone: (435) 781-9453

Kerr McGee can only use the following water source: Permit # 49-2307 JD Field Services Green River-Section 15, T2N, R22E

Page 4 of 4 Well: NBU 1022-3P4CS 7/19/2012

DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

Gamma ray Log shall be run from Total Depth to Surface.

Variances Granted:

Air Drilling

- Properly lubricated and maintained rotating head. Variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the well bore. Variance granted for blooie line discharge to be 45' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for truck/trailer mounted air compressors located 40'from the well bore.
- In lieu of mud products on location, Kerr McGee will fill the reserve pit with water for the kill medium and will utilize a skid pump near the reserve pit to supply the water to the well bore if necessary.
- Automatic igniter. Variance granted for igniter due to there being no productive formations encountered while air drilling.
- FIT Test. Variance granted due to well-known geology and the problems that can occur with the FIT test.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily
 drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order
 No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a
 test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's
 log.

Page 5 of 5 Well: NBU 1022-3P4CS 7/19/2012

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is
 encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal
 Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
 Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to BLM_UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 6 of 6 Well: NBU 1022-3P4CS 7/19/2012

OPERATING REQUIREMENT REMINDERS:

 All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
 notified when it is placed in a producing status. Such notification will be by written communication
 and must be received in this office by not later than the fifth business day following the date on
 which the well is placed on production. The notification shall provide, as a minimum, the following
 informational items:
 - Operator name, address, and telephone number.
 - o Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - o The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - o Unit agreement and/or participating area name and number, if applicable.
 - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be
 reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported
 verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will
 be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of
 Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

Page 7 of 7 Well: NBU 1022-3P4CS 7/19/2012

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering
 lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a
 suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be
 obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior approval
 of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior
 approval of the BLM Vernal Field Office shall be obtained and notification given before resumption
 of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Sundry Number: 38471 API Well Number: 43047529390000

						_
	STATE OF UTAH				FORM S)
1	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI		6	5.LEASE UTU-0	DESIGNATION AND SERIAL NUMBER 1191A	:
SUNDR	RY NOTICES AND REPORTS	ON	WELLS	6. IF IND	IAN, ALLOTTEE OR TRIBE NAME:	-
	posals to drill new wells, significantly reenter plugged wells, or to drill horiz n for such proposals.				r CA AGREEMENT NAME: AL BUTTES	-
1. TYPE OF WELL Gas Well					NAME and NUMBER: 022-3P4CS	-
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.			9. API NU 43047	JMBER: 529390000	_
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	h Street, Suite 600, Denver, CO, 8021		ONE NUMBER: 79 720 929-6		and POOL or WILDCAT: AL BUTTES	_
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0680 FSL 2069 FEL				COUNTY		_
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SWSE Section: 0	HIP, RANGE, MERIDIAN: 03 Township: 10.0S Range: 22.0E Meri	dian: :	S	STATE: UTAH		
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE N	ATURE OF NOTICE, REPOR	T, OR O	THER DATA	
TYPE OF SUBMISSION			TYPE OF ACTION			
	ACIDIZE		ALTER CASING		CASING REPAIR	_
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS		CHANGE TUBING		CHANGE WELL NAME	
	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS		CONVERT WELL TYPE	
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN		FRACTURE TREAT		NEW CONSTRUCTION	
	OPERATOR CHANGE		PLUG AND ABANDON		PLUG BACK	
SPUD REPORT	PRODUCTION START OR RESUME		RECLAMATION OF WELL SITE		RECOMPLETE DIFFERENT FORMATION	
Date of Spud:	REPERFORATE CURRENT FORMATION		SIDETRACK TO REPAIR WELL		TEMPORARY ABANDON	
	TUBING REPAIR		VENT OR FLARE		WATER DISPOSAL	
DRILLING REPORT Report Date:	WATER SHUTOFF		SI TA STATUS EXTENSION		APD EXTENSION	
6/3/2013	WILDCAT WELL DETERMINATION	\Box	OTHER	ОТНЕ	ER:	
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show	all pe	rtinent details including dates, d	enths. vo	lumes, etc.	_
	Drilled to 9,120 ft. in May 2	-	_	FOI	Accepted by the Utah Division of il, Gas and Mining R RECORD ONLY June 04, 2013	
NAME (PLEASE PRINT) Matthew P Wold	PHONE NUM 720 929-6993	BER	TITLE Regulatory Analyst I			
SIGNATURE N/A			DATE 6/3/2013			-
13//1			■ 5/5/2015			

Sundry Number: 39780 API Well Number: 43047529390000

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191A
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizo n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 1022-3P4CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047529390000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	h Street, Suite 600, Denver, CO, 8021	PHONE NUMBER: 7 3779 720 929-6	9. FIELD and POOL or WILDCAT: 5NATERAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0680 FSL 2069 FEL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SWSE Section: 0	HIP, RANGE, MERIDIAN: 03 Township: 10.0S Range: 22.0E Merio	dian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
✓ DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
Report Date: 7/5/2013	_	SITA STATUS EXTENSION	
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
l .	COMPLETED OPERATIONS. Clearly show month of June 2013. Well T		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 11, 2013
NAME (PLEASE PRINT) Teena Paulo	PHONE NUME 720 929-6236	BER TITLE Staff Regulatory Specialist	
SIGNATURE		DATE 7/5/2012	
N/A		7/5/2013	

RECEIVED: Jul. 05, 2013

Sundry Number: 40523 API Well Number: 43047529390000

	STATE OF UTAH		FORM 9
ı	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MII		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191A
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 1022-3P4CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047529390000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	h Street, Suite 600, Denver, CO, 8021	PHONE NUMBER: 7 3779 720 929-0	9. FIELD and POOL or WILDCAT: 5NATERAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0680 FSL 2069 FEL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 03 Township: 10.0S Range: 22.0E Merio	dian: S	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	✓ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
✓ DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
7/26/2013	WILDCAT WELL DETERMINATION	OTHER	OTHER:
12. DESCRIBE PROPOSED OR	WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly show	all pertinent details including dates, o	<u> </u>
	L WAS PLACED ON PRODUC WELL HISTORY WILL BE SUBI COMPLETION REPORT.		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 12, 2013
NAME (PLEASE PRINT) Teena Paulo	PHONE NUMB 720 929-6236	BER TITLE Staff Regulatory Specialist	
SIGNATURE	120 323-0230	DATE	
N/A		7/29/2013	

RECEIVED: Jul. 29, 2013

Form 3160-4 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

BUREAU OF LAND MANAGEMENT	

	WELL	COMPL	ETION C	R RE	ECON	IPLETI	ON RI	EPOR	T A	ND L	OG			ease Serial I		
1a. Type		Oil Well	■ Gas	Well	□ D:	ry 🔲 (Other						6. If	Indian, All	ottee o	r Tribe Name
b. Type	of Completion			☐ Wo	ork Ove	r 🔲 🗅	eepen	□ P	lug B	ack	☐ Diff. R	esvr.	7 11	nit or CA A	areem	ent Name and No.
		Oth	er											TU63047		ent ivanic and ivo.
	of Operator R MCGEE OII	L&GAS C	NSHOREÆ	≟-Mail: t		Contact: T baulo@ar)				8. Lo	ease Name : IBU 1022-	and Wo	ell No. S
3. Addre	ss PO BOX DENVER		217					Phone : 720-9			area code)		9. A	PI Well No		43-047-52939
4. Locati	on of Well (Re	port locat	ion clearly ar	nd in ac	cordano	e with Fee	leral req	luiremei	nts)*					Field and Pol		Exploratory
At sur	face SWSE	680FSL	. 2069FEL 3	9.9725	570 N L	₋at, 109.4	24043	W Lon					11. 5	Sec., T., R.,	M., or	Block and Survey 0S R22E Mer SLB
At top	prod interval	reported b	elow SES	SE 2781	FSL 49	6FEL								County or P		13. State
	1	SE 236F	SL 500FEL										L	IINTÁH		UT
14. Date 02/13	Spudded 8/2013			ate T.D /15/20		ed				ompleted I F 2013	d Ready to P	rod.	17. I	Elevations (529	DF, KI 97 KB	B, RT, GL)*
18. Total	Depth:	MD TVD	9120 8789		19. F	lug Back	Г.D.:	MD TVE		906 873		20. Dej	oth Bri	dge Plug Se		MD TVD
	Electric & Oth SN/ACTR-BH				omit coj	y of each)					well core OST run? tional Su)	⊠ No	☐ Yes	s (Submit analysis) s (Submit analysis) s (Submit analysis)
23. Casing	and Liner Rec	ord (Repo	ort all strings	set in v	vell)											
Hole Siz	e Size/G	rade	Wt. (#/ft.)	To (M	^	Bottom (MD)	1 ~	Cement Depth	ter		Sks. & Cement	Slurry (BB		Cement 7	Гор*	Amount Pulled
20.00	00 14.	000 STL	36.7		0	4	0				28				0	
11.00	00 8.6	25 IJ-55	28.0		26	268	_		_		900				0	
7.8	75 4.	.500 I-80	11.6		26	910	9		4		1625				735	
									+							
					-				+			<u> </u>				
24. Tubii	ng Record		l	<u> </u>			1					<u> </u>				
Size	Depth Set (N	MD) P	acker Depth	(MD)	Size	e Der	th Set (MD)	Pac	ker Dept	th (MD)	Size	De	pth Set (M	D)	Packer Depth (MD)
2.375	•	8464	•							'				,		
25. Produ	cing Intervals					20	6. Perfor	ation Re	ecord							
	Formation		Top		Bott	om]	Perforate	ed Int	terval		Size	1	No. Holes		Perf. Status
A)		ATCH		5694		6643			5	5694 TC	6643	0.3	60		OPE	
B)	MESAVE	ERDE		7298		8989			7	7298 TC	8989	0.3	60	143	OPE	N
C)																
D) 27 Acid	Fracture, Treat	tment Cei	ment Squeeze	- Etc												
27.71010,	Depth Interv		Incht Bqueez	o, Etc.					Amo	unt and	Type of M	[aterial				
	•	694 TO 8	989 PUMP 8	3,632 BE	BLS SLI	CK H2O &	185,307	7 LBS 30				шини				
	ction - Interval		Test	Oil	Ic	as	Water	Lou	1. C	4	Gas		Dec de et	on Method		
Date First Produced	Date	Hours Tested	Production	BBL	M	ICF	BBL	Co	l Gravit orr. API		Gravity	,	rioduct			
07/26/201		24		21.	-	2530.0	0.0							FLOV	VS FR	OM WELL
Choke Size	Tbg. Press. Flwg. 1841	Csg. Press.	24 Hr. Rate	Oil BBL	M	as ICF	Water BBL	Ra	s:Oil tio		Well S					
20/64 28a Prod	uction - Interva	2158.0	1 1	21		2530	0					GW				
Date First	Test	Hours	Test	Oil	G	as	Water	Oil	l Gravit	ty	Gas		Product	on Method		
Produced	Date	Tested	Production	BBL		ICF	BBL		orr. API		Gravity	,				
		1	-								1					

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #218042 Verified by the BLM Well Information System. For KERR MCGEE OIL&GAS ONSHORE,LP, sent to the Vernal

Name (please print)	TEENA PAULO		Title STAFF REGULATORY SPECIALIST
		_	
Signature	(Electronic Submission)		Date 08/23/2013

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

				U	S ROC	KIES R	EGION	
				Opera	tion S	umma	ary Report	
Well: NBU 1022-	3P4CS YELLOW						Spud Date: 4/15	5/2013
Project: UTAH-U	INTAH		Site: NBL	1022-03	O PAD			Rig Name No: PROPETRO 12/12, H&P 298/298
Event: DRILLING	3		Start Date	e: 4/3/201	3			End Date: 5/16/2013
Active Datum: RI Level)	KB @5,297.00usft (ab	ove Mean Se	a	UWI: SV	V/SE/0/1	0/S/22/E/	3/0/0/26/PM/S/680	0/E/0/2069/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
4/15/2013	16:00 - 22:00	6.00	MIRU	01	В	Р		SKID RIG 20' TO NBU 1022-3P4CS, RIG UP SET MATTING BOARD, SET RIG IN PLACE, CATWALK, PIPE RACKS, PLACE BOTTOME HOLE ASSEMBLY
	22:00 - 22:30	0.50	MIRU	01	С	Р		PRE SPUD JOB SAFETY MEETING REVEW DIRECTIONAL PLANS AND PLATS AND VERIFY LAT/LONGS AND WELL ORDER VERIFY DIRECTIONAL DRILLERS PLAN IS THE MOST RECENT AND APPROVED VERSION REFERENCE WELLBORE DIAGRAMS FOR EXACT CASING DESIGN AND GENERAL OVERVEW OF WELLBORE, PRIOR TO SPUD. FINISH PICKING UP BHA. PICK UP NOV 1.83 DEGREE BENT MOTOR (RUN #2)17 REV/GAL SN (775-77021). PICK UP 12.25 HUGHES DRILL BIT RUN 8 SN (7137067)
	22:30 - 0:00	1.50	DRLSUR	02	В	P	66	SPUD @ 04/15/2013 22:30. DRILL 12.25" HOLE 44'-210' (166', 110'/PER HOUR). 12.25" BIT ON 8th RUN. WEIGHT ON BIT 5-15 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF (BOTTOM) 800/600. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROTATE 20/20/20 K. DRAG 0 K. CIRCULATE CLOSED LOOP SYSTEM WITH 8.3# WATER. RUNNING VOLUME THROUGH 1 CENTRAFUGE DEWATERING AND, RUNNING VOLUME OVER BOTH SHAKERS. DRILL DOWN TO 210' WITH 6" DRILL COLLARS.
4/16/2013	0:00 - 1:30	1.50	DRLSUR	06	A	Р	232	PRE JOB SAFETY MEETING, CIRC 15 MINUTES AND, TRIP OUT TO CHANGE ASSEMBLY. LAY DOWN 6" DRILL COLLARS, BREAK 12 1/4" BIT. MAKE UP HUGHES 11" BIT (1ST RUN) (SN 7144792) PICK UP 8" DIRECTIONAL ASSEMBLY. INSTALL EM TOOL, TRIP IN HOLE.

API Well Number: 43047529390000 US ROCKIES REGION **Operation Summary Report** Well: NBU 1022-3P4CS YELLOW Spud Date: 4/15/2013 Project: UTAH-UINTAH Site: NBU 1022-03O PAD Rig Name No: PROPETRO 12/12, H&P 298/298 **Event: DRILLING** End Date: 5/16/2013 Start Date: 4/3/2013 UWI: SW/SE/0/10/S/22/E/3/0/0/26/PM/S/680/E/0/2069/0/0 Active Datum: RKB @5,297.00usft (above Mean Sea Date P/U Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 1:30 - 6:00 4.50 DRLSUR 02 Ρ 232 В DRILL 11". SURFACE HOLE 210'-900', (690', 115'/PER HOUR). WEIGHT ON BIT 18-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE PRESSURE ON/OFF(BOTTOM) 900/700. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 50/40/45 K. DRAG 5 K. SLIDING 15' PER 90'OF ROTATION GETTING 1.5 DEGREE BUILD RATES CURRENTLY 7' NORTH 2' RIGHT OF THE LINE CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# RUNNING VOLUME THROUGH 1 CENTRAFUGE DEWATERING AND, RUNNING VOLUME OVER BOTH SHAKERS. NO HOLE ISSUES. 6.00 - 12:00 6.00 DRLSUR 02 922 DRILL 11". SURFACE HOLE 900'-1680, (780', 130'/PER HOUR). WEIGHT ON BIT 18-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE PRESSURE ON/OFF(BOTTOM) 1300/1100. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 70/50/60 K. DRAG 10 K. SLIDING 15' PER 90'OF ROTATION GETTING 1.5 DEGREE BUILD RATES CURRENTLY 8.52' NORTH 1.67' RIGHT OF THE LINE CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# RUNNING VOLUME THROUGH 1 CENTRAFUGE RUNNING VOLUME OVER DEWATERING AND, BOTH SHAKERS. PUT AIR ON THE HOLE @ 1800 CFM @ 1400'. 12:00 - 18:00 6.00 **DRLSUR** 02 1702 DRILL 11". SURFACE HOLE 1680'-2220', (540', 90'/PFR HOUR) WEIGHT ON BIT 18-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE PRESSURE ON/OFF(BOTTOM) 1400/1200. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 80/60/70 K. DRAG 10 K. SLIDING 15' PER 90'OF ROTATION GETTING 1.5 DEGREE BUILD RATES CURRENTLY 17.21' NORTH 8.27' RIGHT OF THE LINE CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER RUNNING VOLUME THROUGH 1 CENTRAFUGE DEWATERING AND, RUNNING VOLUME OVER BOTH SHAKERS. PUT AIR ON THE HOLE @ 1800 CFM @ 1400'.

API Well Number: 43047529390000 US ROCKIES REGION **Operation Summary Report** Well: NBU 1022-3P4CS YELLOW Spud Date: 4/15/2013 Project: UTAH-UINTAH Site: NBU 1022-03O PAD Rig Name No: PROPETRO 12/12, H&P 298/298 **Event: DRILLING** End Date: 5/16/2013 Start Date: 4/3/2013 UWI: SW/SE/0/10/S/22/E/3/0/0/26/PM/S/680/E/0/2069/0/0 Active Datum: RKB @5,297.00usft (above Mean Sea Date P/U Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 18:00 - 0:00 6.00 DRLSUR 02 Ρ 2242 В DRILL 11". SURFACE HOLE 2220'-2610', (390', 65'/PER HOUR). WEIGHT ON BIT 18-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE PRESSURE ON/OFF(BOTTOM) 1450/1200. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 85/65/75 K. DRAG 10 K. SLIDING 15' PER 90'OF ROTATION GETTING 1.5 DEGREE BUILD RATES CURRENTLY 17.21' NORTH 8.27' RIGHT OF THE LINE CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# RUNNING VOLUME THROUGH 1 CENTRAFUGE DEWATERING AND, RUNNING VOLUME OVER BOTH SHAKERS. PUT AIR ON THE HOLE @ 1800 CFM @ 1400'. 4/17/2013 0:00 - 1:30 1.50 DRLSUR 02 2632 DRILL 11". SURFACE HOLE 2610'-2690', (80', 53'/PER HOUR). WEIGHT ON BIT 18-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE PRESSURE ON/OFF(BOTTOM) 1450/1200. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 85/65/75 K. DRAG 10 K. SLIDING 15' PER 90'OF ROTATION GETTING 1.5 DEGREE BUILD RATES CURRENTLY 17.21' NORTH 8.27' RIGHT OF THE LINE CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# RUNNING VOLUME THROUGH 1 CENTRAFUGE RUNNING VOLUME OVER DEWATERING AND, BOTH SHAKERS. PUT AIR ON THE HOLE @ 1800 CFM @ 1400'. 1:30 - 3:30 2.00 **DRLSUR** 05 CIRCULATE AND CONDITION HOLE. VOLUME IS CLEAN COMING OVER SHAKERS. 4-400 BBL UPRIGHT'S FULL AND 2-400 BBL UPRIGHTS EMPTY. MUD TANKS FULL. 3:30 - 7:00 3.50 **CSGSUR** D 06 TRIP OUT OF HOLE. LAY DOWN DRILL STRING, BOTTOM HOLE ASSEMBLY. DIRECTIONAL TOOLS, MOTOR AND, BIT. CLEAR TOOL AREA. 7:00 - 8:00 1.00 Р **CSGSUR** 06 D PRE JOB SAFETY MEETING, MOVE PIPE RACKS AND CATWALK. PULL DIVERTER HEAD. RIG UP TO RUN SURFACE CASING. CLEAR UNRELATED TOOLS.

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	2-3P4CS YELLOW		Cito: NDI	1 1000 00	O DAD		Spud Date: 4/1	
Project: UTAH-L			Site: NBU					Rig Name No: PROPETRO 12/12, H&P 298/298
vent: DRILLIN			Start Date			0/0/00/5/0	10 10 10 0 1D M 10 10 0	End Date: 5/16/2013
ctive Datum: R evel)	RKB @5,297.00usft (ab	oove Mean S	ea	UWI: SV	W/SE/0/10	U/S/22/E/3	/0/0/26/PM/S/68	80/E/0/2069/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	15:00 - 0:00	9.00	DRLPRC	02	В	P	4217	DRILL /SLIDE / SURVEY/ F/ 4,217' TO 5,460' = 1243' @ 138.1 FPH WOB 18,000-24,000 TOP DRIVE RPM 55-75 MUD MOTOR RPM 123 PUMPS 130 SPM= 585 GPM PUMP PRESSURE ON/OFF BTM 2,100/1,1,720 TORQUE ON/OFF BTM 12,000 / 8,000 PICK UP WT 180,000 SLACK OFF WT 100,000 ROT WT 123,000 SLIDES 182' IN 190 MIN 14.6 % OF FOOTAGE DRILLED,35.1 %OF HRS DRILLED 50 BBLS FLUID LOSS PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER MUD WT 8.4 VIS 28 NOV-D WATER SWACO OFF LINE
5/14/2013	0:00 - 6:00	6.00	DRLPRV	02	В	P	5460	DRILL /SLIDE / SURVEY/ F/ 5,460' TO 6,450' = 890' @ 145.3 FPH WOB 18,000-24,000 TOP DRIVE RPM 55-75 MUD MOTOR RPM 123 PUMPS 130 SPM= 585 GPM PUMP PRESSURE ON/OFF BTM 2,100/1,720 TORQUE ON/OFF BTM 12,000 / 8,000 PICK UP WT 180,000 SLACK OFF WT 100,000 ROT WT 123,000 SLIDES 12' IN 55 MIN 1.34 % OF FOOTAGE DRILLED,4.16 %OF HRS DRILLED 0 BBLS FLUID LOSS PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER MUD WT 9.0 VIS 33 NOV-D WATER

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8/16/2013 2:31:18PM 7

API Well Number: 43047529390000 **US ROCKIES REGION Operation Summary Report** Well: NBU 1022-3P4CS YELLOW Spud Date: 4/15/2013 Project: UTAH-UINTAH Site: NBU 1022-03O PAD Rig Name No: PROPETRO 12/12, H&P 298/298 **Event: DRILLING** End Date: 5/16/2013 Start Date: 4/3/2013 UWI: SW/SE/0/10/S/22/E/3/0/0/26/PM/S/680/E/0/2069/0/0 Active Datum: RKB @5,297.00usft (above Mean Sea Date P/U Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 5/15/2013 0:00 - 6:00 6.00 **DRLPRV** 02 Ρ 8115 В DRILL /SLIDE / SURVEY/ F/ 8.115' TO 8.775' = 660' @110 FPH WOB 18.000-26.000 TOP DRIVE RPM 55-75 MUD MOTOR RPM 123 PUMPS 130 SPM= 585 GPM PUMP PRESSURE ON/OFF BTM 2,480/2,100 TORQUE ON/OFF BTM 17,000 / 10,000 PICK UP WT 220,000 **SLACK OFF WT 125,000 ROT WT 175,000 NOSLIDES 0 BBLS FLUID LOSS** PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER MUD WT 10.5 VIS 38 **NOV-OFF LINE** DISPLACE HOLE WITH 11.5PPG @ 8,650 SWACO ON LINE @ 8,675 375 ANN PRESSURE, EQUIV TO 10.4 PPG / 40' FLARE 6:00 - 10:30 4.50 **DRLPRV** 8775 DRILL /SLIDE / SURVEY/ F/ 8,775' TO 9,120 TD' = 345' @ 76.6 FPH WOB 18,000-26,000 TOP DRIVE RPM 55-75 MUD MOTOR RPM 123 PUMPS 105 SPM= 473 GPM PUMP PRESSURE ON/OFF BTM 2419/2150 TORQUE ON/OFF BTM 12,000/10,000 PICK UP WT 225,000 **SLACK OFF WT 148,000 ROT WT 170,000** NO SLIDES 0 BBLS FLUID LOSS PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER MUD WT 11.7 VIS 41 **NOV-D WATER** SWACO OFF LINE 10:30 - 12:00 1.50 **DRLPRV** 05 С 9120 CIRC & COND MUD FOR WIPER TRIP 12:00 - 16:30 **DRLPRV** F 4.50 06 Р 9120 PUMP SLUG, WIPER TRIP TO CSG SHOE @ 2,687' / TIGHT SPOTS F/7,250' - T/4,556', FLOW CHECK 16:30 - 17:00 0.50 **DRLPRV** 07 Ρ 2687 RIG SERVICE @ 2,687' (CHANGED TOP DRIVE OIL) 17:00 - 21:00 Р 4.00 **DRLPRV** 06 Ε 2687 FILL PIPE @ SHOE, 5,000, TIH TO 9,120' HIGH WIND GUSTS) 21:00 - 22:30 1.50 **DRLPRV** 05 С Р 9120 CIRC & COND MUD FOR OPEN HOLE LOGS 22:30 - 0:00 1.50 **EVALPR** 9120 06 В TOOH / BACK REAM 5 STANDS OFF BOTTOM / SPOT 100 BBL PILL / TRIP OUT T/7,100' PUMP DRY JOB / HOLE TOOK PROPER FLUID / FLOW CHECK @ CSG SHOE / PULL ROT RUBBER / BREAK BIT LD MUD MOTOR / FUNCTION TEST PIPE & BLIND RAMS. 5/16/2013 0:00 - 3:30 3.50 **EVALPR** 06 Ε Ρ FINISH TRIPPING OUT OF HOLE / FLOW CHECK @ CSG SHOE, PULL ROT RUBBER, BREAK BIT LD M MTR, FUNCT TEST PIPE & BLIND RAMS.

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API Well Number: 43047529390000 US ROCKIES REGION **Operation Summary Report** Well: NBU 1022-3P4CS YELLOW Spud Date: 4/15/2013 Project: UTAH-UINTAH Site: NBU 1022-03O PAD Rig Name No: PROPETRO 12/12, H&P 298/298 **Event: DRILLING** End Date: 5/16/2013 Start Date: 4/3/2013 UWI: SW/SE/0/10/S/22/E/3/0/0/26/PM/S/680/E/0/2069/0/0 Active Datum: RKB @5,297.00usft (above Mean Sea Date P/U Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 3:30 - 9:30 6.00 **EVALPR** 11 Ρ G CTJSA R/U HALLIBURTON RUN TRIPLE COMBO W/ROLLER BOGIE / LOGGER TD 9,113' DRILLER TD 9.120' / LOG OUT 9:30 - 10:00 0.50 **CSGPRO** 14 В Р PULL WEAR BUSHING / X/O BAILS 10:00 - 11:00 1.00 **CSGPRO** 12 Ρ CTJSA RIG UP KIMZEY CASERS Α 11:00 - 18:00 7 00 **CSGPRO** 12 Р С MAKE UP FLOAT EQUIP RUN 93 JOINTS I-80 11.6# LTC 4.5" CASING + 114 JOINTS ,I-80, 11.6#, DQX 4.5" CASING + RELATED TOOLS / BREAKING CIRCULATION @ SELECTED INTERVALS / LANDING CASING IN BOWL @ 9,108' FOR CIRC, & CEMENTING.SHOE @ 9,108', MV MARKER @ 7,031', X/O @ 5,072' 18:00 - 19:30 1.50 **CSGPRO** 05 D Р CIRC CASING, R/D KIMZEY, JSA W/BJ 19:30 - 22:30 3.00 **CSGPRO** 12 Ε INSTALL BJ CMT HEAD, TEST PUMP & LINES TO 4,500 PSI, DROP BOTTOM PLUG PUMP 25 BBLS FW, PUMP 526 SKS LEAD CEMENT @ 12.5 PPG, 185 BBL SLURRY (PREM LITE II + .0.25 pps CELLO FLAKE + 5 pps KOL SEAL +0.4 bwocFL52+ .05 lb/sx STATIC FREE + 8% bwoc BENTONITE + .2% bwoc SODIUM META SILICATE + 0.35 % R-3 + 101.8% FRESH WATER / (10.44 gal/sx,1.98 yield) + 1100 SX TAIL @ 14.3 ppg 258 BBL SLURRY (CLS G 50/50 POZ + 10% SALT + .005llbs/sx STATIC FREE + .2% R3 +0.5%bwocEC-1+ .002 GPS FP-6L + 2% BENTONITE + 58.9% FW / (5.94 gal/sx, 1.32 yield) / DROP TOP PLUG & DISPLACE W/ 140.5 BBLS H2O + ADDITIVES / PLUG DOWN @ 22:25 HOURS / FLOATS HELD W/ 1.50 BBLS H2O RETURNED TO INVENTORY/ GOOD CIRC THROUGH OUT 5 BBLS LEAD CMT TO PIT / LIFT PRESSURE @ 2,700 PSI / BUMP PRESSURE TO 3,200 PSI / TOP OF TAIL CEMENT CALCULATED @ 3.893' / RIG DOWN CMT EQUIPMENT 22:30 - 23:00 0.50 **CSGPRO** 12 Е FLUSH OUT BOP STACK & MUD LINES 23:00 - 23:30 0.50 **CSGPRO** 12 Ε SET PACK OFF, CHANGE OUT CASING BAILS 23:30 - 0:00 Ρ 0.50 **CSGPRO** 14 Α N/D BOP AND RELEASE RIG @ 23:59 TO NBU

8/16/2013 2:31:18PM 9

1022-3P4BS

General

Customer Information 1.

Company	US ROCKIES REGION
Representative	
Address	

Well/Wellbore Information 1.2

				API
			US ROCKIES REGION	EGION B
				11
General				Nun
Customer Information				mber:
Company	US ROCKIES REGION			4
Representative				30
Address) 4
Well/Wellbore Information	ation			7529
Well	NBU 1022-3P4CS YELLOW	Wellbore No.	HO	39(
Well Name	NBU 1022-3P4CS	Wellbore Name	NBU 1022-3P4CS	00
Report No.		Report Date	7/15/2013	00
Project	UTAH-UINTAH	Site	NBU 1022-03O PAD)
Rig Name/No.		Event	COMPLETION	
Start Date	7/10/2013	End Date	7/26/2013	
Spud Date	4/15/2013	Active Datum	RKB @5,297.00usft (above Mean Sea Level)	
UWI	SWI/SE/0/10/S/22/E/3/0/0/26/PM/S/680/E/0/2069/0/0			

General ..

Contractor	Job Method	Supervisor	
Perforated Assembly	Conveyed Method		

Summary

1.5

Initial Conditions 1.4

Fluid Type		Fluid Density	Gross Interval	5,694.0 (usft)-8,989.0 (usft Start Date/Time	Start Date/Time	7/15/2013 12:00AM
Surface Press		Estimate Res Press	No. of Intervals	46	46 End Date/Time	7/15/2013 12:00AM
TVD Fluid Top		Fluid Head	Total Shots	213	213 Net Perforation Interval	67.00 (usft)
Hydrostatic Press		Press Difference	Avg Shot Density	3.18 (shot/ft)	3.18 (shot/ft) Final Surface Pressure	
Balance Cond	I NEUTRAL				Final Press Date	

Intervals

Perforated Interval

Date	Formation/	@Toc	CCL-T	MD Top	MD Base	Shot	Misfires/	Diamete	Carr Type /Stage No	Carr	Phasing	Phasing Charge Desc /Charge	Charge	Reason	Misrun
	Reservoir	(nst)	ဟ	(nstt)	(usft) S (usft) (usft) Densit	Density	Add. Shot	_		Size	©	Manufacturer	Weight		
			(nsft)			(shot/ft)		(in)		(in)			(gram)		
7/15/2013	715/2013 WASATCH/			5.694.0	5,696.0	3.00		0.360 EXP/	EXP/	3.375	120.00		23.00 P	23.00 PRODUCTIO	
12:00AM													Z		

OpenWells

August 16, 2013 at 2:33 pm

Perforated Interval (Continued)

2.1 Pe	Perforated Interval (Continued)	Confinue	(pe											US ROCKIES REGION	REGION IN
Date	Formation/ Reservoir	(mst)	CCL-T S (usff)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	umber unsi W
7/15/2013 12:00AM	WASATCH/			5,813.0	5,815.0	4.00		<u> </u>	EXP/	3.375	90.00		23.00	23.00 PRODUCTIO N	: 4
7/15/2013 12:00AM	WASATCH/			5,888.0	5,891.0	3.00		0.360 E	EXP/	3.375	120.00		23.00	23.00 PRODUCTIO N	1304
7/15/2013 12:00AM	WASATCH/			6,046.0	6,048.0	3.00		0.360 E	EXP/	3.375	120.00		23.00	23.00 PRODUCTIO N	175
7/15/2013 12:00AM	WASATCH/			6,096.0	6,098.0	3.00		0.360 E	EXP/	3.375	120.00		23.00	23.00 PRODUCTIO N	293
7/15/2013 12:00AM	WASATCH/			6,105.0	6,107.0	3.00		0.360 E	EXP/	3.375	120.00		23.00	23.00 PRODUCTIO N	900
7/15/2013 12:00AM	WASATCH/			6,171.0	6,173.0	3.00		0.360 E	EXP/	3.375	120.00		23.00	23.00 PRODUCTIO N	00
7/15/2013 12:00AM	WASATCH/			6,432.0	6,434.0	3.00		0.360 E	EXP/	3.375	120.00		23.00	23.00 PRODUCTIO N	
7/15/2013 12:00AM	WASATCH/			0.009,9	6,602.0	4.00		0.360 EXP/	EXP/	3.375	00.06		23.00	23.00 PRODUCTIO N	
7/15/2013 12:00AM	WASATCH/			6,640.0	6,643.0	3.00		0.360 E	EXP/	3.375	120.00		23.00	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			7,298.0	7,300.0	3.00		0.360 EXP/	EXP/	3.375	120.00		23.00	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			7,370.0	7,372.0	4.00		0.360 E	EXP/	3.375	90.00		23.00	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			7,561.0	7,564.0	3.00		0.360 EXP/	EXP/	3.375	120.00		23.00	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			7,608.0	7,610.0	3.00		0.360 E	EXP/	3.375	120.00		23.00	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			7,652.0	7,654.0	3.00		0.360 E	EXP/	3.375	120.00		23.00	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			7,679.0	7,681.0	3.00		0.360 E	EXP/	3.375	120.00		23.00	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			7,763.0	7,765.0	3.00		0.360 E	EXP/	3.375	120.00		23.00	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			7,977.0	7,978.0	3.00		0.360 E	EXP/	3.375	120.00		23.00	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			8,020.0	8,021.0	3.00		0.360 E	EXP/	3.375	120.00		23.00	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			8,136.0	8,137.0	3.00		0.360 E	EXP/	3.375	120.00		23.00	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			8,146.0	8,147.0	3.00		0.360 EXP/	EXP/	3.375	120.00		23.00	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			8,166.0	8,167.0	3.00		0.360 EXP/	EXP/	3.375	120.00		23.00	23.00 PRODUCTIO N	

Perforated Interval (Continued)

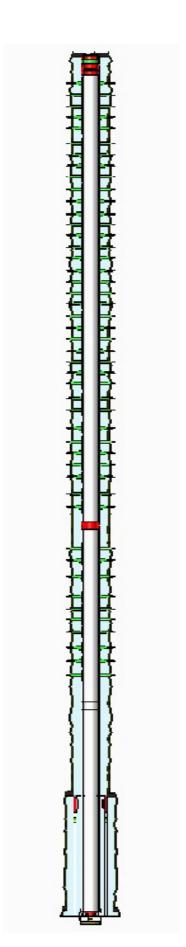
2.1 Pe	Perforated Interval (Continued)	Continu	(pa										5	US ROCKIES REGION	REGION INA
Date	Formation/ Reservoir	(JJSN)	CCL-T S S	MD Top (usft)	MD Base (usft)	Shot Density	Misfires/ Add. Shot	Diamete r	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Jumber Linusi W
7/15/2013 12:00AM	MESAVERDE/			8,183.0	8,184.0			<u> </u>	EXP/	3.375	120.00		23.00 F	23.00 PRODUCTIO N	: 4
7/15/2013 12:00AM	MESAVERDE/			8,217.0	8,219.0	3.00		0.360	EXP/	3.375	120.00		23.00 F	23.00 PRODUCTIO N	1304
7/15/2013 12:00AM	MESAVERDE/			8,246.0	8,247.0	3.00		0.360	EXP/	3.375	120.00		23.00 F	23.00 PRODUCTIO N	175
7/15/2013 12:00AM	MESAVERDE/			8,288.0	8,289.0	3.00		0.360	EXP/	3.375	120.00		23.00 F	23.00 PRODUCTIO N	293
7/15/2013 12:00AM	MESAVERDE/			8,341.0	8,342.0	3.00		0.360	EXP/	3.375	120.00		23.00 F	23.00 PRODUCTIO N	900
7/15/2013 12:00AM	MESAVERDE/			8,349.0	8,350.0	3.00		0.360	EXP/	3.375	120.00		23.00 F	23.00 PRODUCTIO N	00
7/15/2013 12:00AM	MESAVERDE/			8,376.0	8,377.0	3.00		0.360	EXP/	3.375	120.00		23.00 F	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			8,393.0	8,394.0	3.00		0.360 EXP/	EXP/	3.375	120.00		23.00 F	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			8,451.0	8,452.0	3.00		0.360	EXP/	3.375	120.00		23.00 F	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			8,472.0	8,473.0	3.00		0.360 EXP/	EXP/	3.375	120.00		23.00 F	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			8,503.0	8,504.0	3.00		0.360	EXP/	3.375	120.00		23.00 F	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			8,521.0	8,522.0	3.00		0.360 EXP/	EXP/	3.375	120.00		23.00 F	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			8,534.0	8,535.0	3.00		0.360	EXP/	3.375	120.00		23.00 F	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			8,592.0	8,593.0	3.00		0.360	EXP/	3.375	120.00		23.00 F	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			8,633.0	8,634.0	3.00		0.360	EXP/	3.375	120.00		23.00 F	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			8,701.0	8,702.0	3.00		0.360	EXP/	3.375	120.00		23.00 F	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			8,711.0	8,712.0	3.00		0.360	EXP/	3.375	120.00		23.00 F	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			8,718.0	8,719.0	3.00		0.360	EXP/	3.375	120.00		23.00 F	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			8,751.0	8,752.0	4.00		0.360	EXP/	3.375	90.00		23.00 F	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			8,894.0	8,895.0	4.00		0.360 EXP/	EXP/	3.375	90.00		23.00 F	23.00 PRODUCTIO N	
7/15/2013 12:00AM	MESAVERDE/			8,906.0	8,907.0	4.00		0.360 EXP/	EXP/	3.375	90.00		23.00 F	23.00 PRODUCTIO N	

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l (Continu
d Interval
Perforated
2.1

													_	US ROCKIES REGION	REGION
2.1 Pe	Perforated Interval (Continued)	Continue	(þ												
Date	Formation/ Reservoir	(nstr)	CCL-T S (usft)	MD Top (usft)	CCL-T MDTop MD Base S (usft) (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
7/15/2013 II 12:00AM	7/15/2013 MESAVERDE/ 12:00AM			8,917.0	8,918.0	4.00		0.360 EXP/	EXP/	3.375	90.00		23.00	23.00 PRODUCTIO N	
7/15/2013 N	7/15/2013 MESAVERDE/ 12:00AM			8,946.0	8,947.0	4.00		0.360 EXP/	EXP/	3.375	90.00		23.00	23.00 PRODUCTIO N	
7/15/2013 N 12:00AM	7/15/2013 MESAVERDE/ 12:00AM			8,988.0	8,989.0	4.00		0.360 EXP/	EXP/	3.375	90.00		23.00	23.00 PRODUCTIO N	
3 Plots 3.1 Wellb	Plots Wellbore Schematic														



Wellbore Schematic 3.1



August 16, 2013 at 2:33 pm

						KIES R		
				Opera	tion S	Summa	ary Report	
Well: NBU 1022-	-3P4CS YELLOW						Spud Date: 4/1	5/2013
Project: UTAH-U	INTAH		Site: NBL	1022-03	O PAD			Rig Name No: SWABBCO 6/6
Event: COMPLE	TION		Start Date	e: 7/10/20)13			End Date: 7/26/2013
Active Datum: RI Level)	KB @5,297.00usft (al	bove Mean S	ea	UWI: SV	N/SE/0/1	0/S/22/E/	3/0/0/26/PM/S/68	0/E/0/2069/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/27/2013	-							
7/10/2013	9:00 - 10:00	1.00	SUBSPR	52	В	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST 77 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. PRESSURE TEST 8 5/8 X 4 1/2 TO 504 PSI HELD FOR 5 MIN LOST -196 PSI,BLED PSI OFF, REINSTALLED POP OFF SWIFN NO PRESSURE ON SURFACE CASING FILLED WITH 4 BBLS
7/12/2013	7:00 - 10:00	3.00	SUBSPR	37		Р		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. RIH PERFWELL, AS PER PERF DESIGN. POOH. SWIFW
7/15/2013	7:00 - 7:15	0.25	FRAC	48		Р		HSM-JSA
	7:15 - 18:00	10.75	FRAC	36	В	P		FRAC STG #1)WHP 600 PSI, BRK 3590 PSI @ 4 BPM. ISIP 2836 PSI, FG. 0.76 ISIP 2557 PSI, FG. 0.73, NPI -279 PSI. X/O TO WL. SET CBP & PERF STG #2 AS DESIGNED, X/O TO FRAC. FRAC STG #2)WHP 1878 PSI, BRK 2788 PSI @ 4.7 BPM. ISIP 2067 PSI, FG. 0.68 ISIP 2786 PSI, FG. 0.76, NPI 719 PSI, X/O TO WL. SET CBP & PERF STG #3 AS DESIGNED
7/16/0040	7:00 - 7:15	0.05	ED A C	40		Р		SWIFN
7/16/2013	7:00 - 7:15	0.25	FRAC	48		۲		HSM-JSA

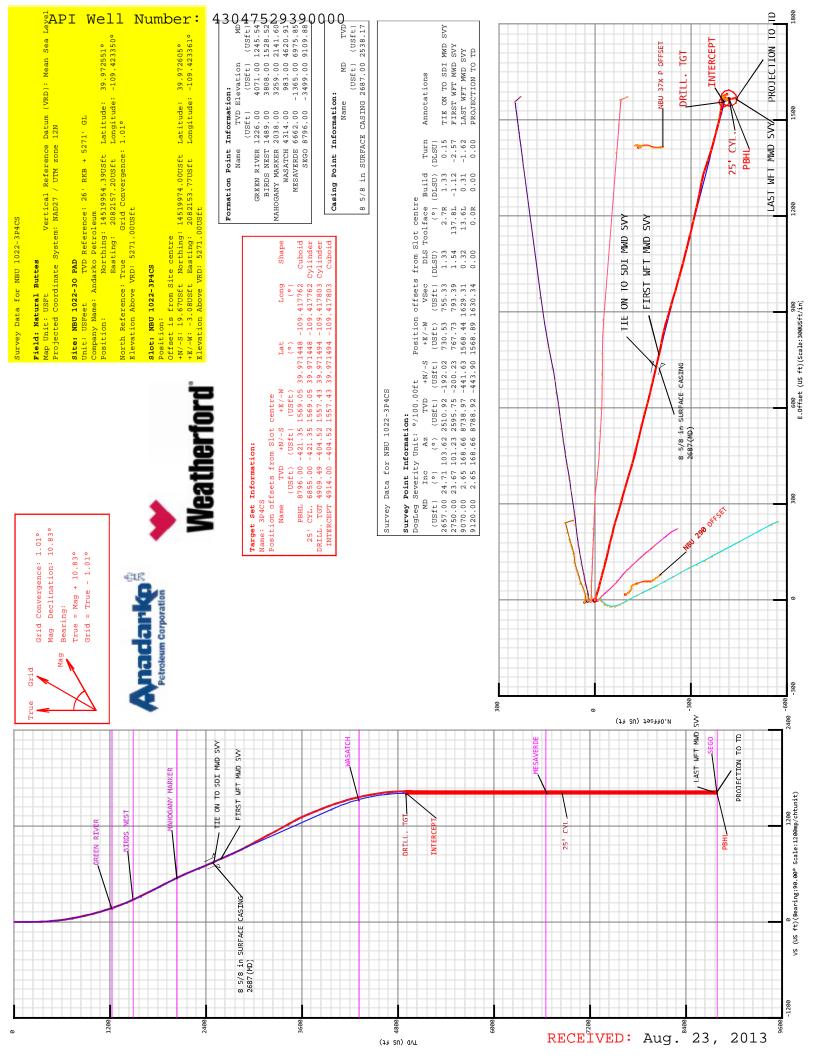
8/16/2013 2:34:21PM 1

API Well Number: 43047529390000 US ROCKIES REGION **Operation Summary Report** Well: NBU 1022-3P4CS YELLOW Spud Date: 4/15/2013 Project: UTAH-UINTAH Site: NBU 1022-03O PAD Rig Name No: SWABBCO 6/6 **Event: COMPLETION** End Date: 7/26/2013 Start Date: 7/10/2013 UWI: SW/SE/0/10/S/22/E/3/0/0/26/PM/S/680/E/0/2069/0/0 Active Datum: RKB @5,297.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End Code (usft) (hr) 7:15 - 17:30 10.25 **FRAC** 36 В Ρ FRAC STG #3)WHP 1729 PSI, BRK 3535 PSI @ 4.6 BPM. ISIP 2309 PSI, FG. 0.71 ISIP 2632 PSI, FG. 0.75, NPI 323 PSI, X/O TO WL. SET CBP & PERF STG #4 AS DESIGNED, X/O TO FRAC. FRAC STG #4)WHP 1533 PSI, BRK 3478 PSI @ 4.9 BPM. ISIP 1984 PSI, FG. 0.68 ISIP 2428 PSI, FG. 0.68, NPI 444 PSI, X/O TO WL. SET CBP & PERF STG #5 AS DESIGNED X/O TO FRAC. FRAC STG 5)WHP 721 PSI, BRK 3191 PSI @ 4 BPM. ISIP 2000 PSI, FG. 0.7 ISIP 2553 PSI, FG. 0.77, NPI 553 PSI. 7/17/2013 6:45 - 7:00 0.25 **FRAC** 48 Ρ HSM, KEEPING AN EYE OUT FOR HEAT RELATED **STRESS** 7:00 - 14:00 7.00 **FRAC** 36 SET PLUG AND PERFORATE STG #6 FRAC STG #6] WHP=664#, BRK DN PERFS=5,941#, @=4.7 BPM, INTIAL ISIP=1,355#, FG=.62, FINAL ISIP=2,015#, FG=.71, SET PLUG AND PERFORATE STG #7 FRAC STG #7] WHP=159#, BRK DN PERFS=2,252#, @=4.5 BPM, INTIAL ISIP=1,353#, FG=.65, FINAL ISIP=1,934#, FG=.73, SET PLUUG AND PERFORATE STG #8 SWIFN 7/18/2013 6:45 - 7:00 0.25 FRAC 48 Р HSM, RIGGING DOWN / PINCH POINTS 7:00 - 12:00 5.00 **FRAC** 36 В Ρ FRAC STG #8] WHP=339#, BRK DN PERFS=2,617#, @=4.5 BPM, INTIAL ISIP=1,199#, FG=.63, FINAL ISIP1,623=#, FG=.70, SET PLUG AND PERFORATE STG #9 FRAC STG #9] WHP=635#, BRK DN PERFS=3,275#, @=4.9 BPM, INTIAL ISIP=1,769#, FG=.74, FINAL ISIP=1,819#, FG=.75, SET TOP KILL [DID NOT SHEAR ENDED UP PULLING OUT OF ROPE SOCKET, LEFT SETTING TOOL IN WELL] TOTAL BBLS=8,632 TOTAL SAND=185,307# 7/25/2013 7:00 - 7:30 0.50 **DRLOUT** Ρ **FISHIING**

8/16/2013 2:34:21PM 2

						KIES RI		
				Opera	ition s	Dullillia	ry Report	1500.00
	2-3P4CS YELLOW		Citar NDI	J 1022-03	O DAD		Spud Date: 4/	
Project: UTAH-L								Rig Name No: SWABBCO 6/6
Event: COMPLE				e: 7/10/20		0/0/20/5/	NO IO IO CIDANO ICO	End Date: 7/26/2013
ctive Datum: R evel)	RKB @5,297.00usft (a	bove Mean S	sea	UWI: SI	/V/SE/U/1	U/S/22/E/	3/0/0/26/PM/S/68	30/E/0/2069/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:30 - 18:00	10.50	DRLOUT	44	С	Р		MIRU, NDWH, NU BOP'S, PU FISHING ASSY WITH OVERSHOT, TIH TO 178 JTS, 5644', BREAK CIRC, TEST BOP'S, LATCH ON FISH, JAR 3 TIMES, BROKE LOOSE, POOH LAY DWN TBG, FISH ASSY, SETTING TOOLS, PU POBS, BIT, XNSN, J-55 TBG, TIH TO 117 JTS, 3597' EOT, SWIFN
7/26/2013	7:00 - 7:30	0.50	DRLOUT	48		Р		MILLING
	7:30 - 17:30	10.00	DRLOUT	44	C	P		MILL 9 PLUGS, 8736', 277 JTS, TIH TO 9062' 287 JTS, C/O 30' SAND, POOH TO 269 JTS, 8464.02', LAND TBG, ND BOP'S, NUWH, PUMP 30 GAL SCALE INHIB, DISPLACE WITH 35 BBLS T-MAC, POBS, 2000#, TEST FLOW LINE TO 3000#, RDMO PLUG# 1 5644' 6' SAND 25 MIN
	17:30 - 17:30	0.00	DRLOUT	50				WELL TURNED TO SALES @ 1800 HR ON 7/26/2013. 1200 MCFD, 1920 BWPD, FCP 2573#, FTP 2057#, 18/64" CK.

8/16/2013 2:34:21PM 3



5D Survey Report

Andarko Petroleum

Natural Buttes Field Name: Well Name: Site Name:

NBU 1022-30 PAD NBU 1022-3P4CS

Definitive Survey

Survey:

Weatherford

5D 7.5.4 : 20 May 2013, 16:34:17 UTC

Weatherford International Limited

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Weatherford

5D Survey Report



Surveys for the NBU 1022-3P4CS

: 1.01		3350			
Convergence Angle: 1.01	Latitude: 39.972551	Longitude: -109.423350			
North Reference: True	Northing: 14519954.39 US ft	Easting: 2082157.20 USft	RKB + 5271' GL	US ft	
Units: USft		Position	Site TVD Reference: 26' RKB + 5271' GL	Elevation above:5271.00 US	Comment:
		Site Name	049 05 5501 HAIN	UND 102-2201 DON	

	39.972605	Longitude: -109.423361								Az : 105.03°
Position (Offsets relative to Site Centre)	s ft Latitude : 39.972605					UWI:	Comment :	Closure Azimuth: 105.798°		+E / -W: 0.00 US ft
Position	Northing :14519974.00 US ft	Easting:2082153.77 USft	Bround Elevation	.00 US ft			: 26.00 US ft S ft	5.48 US ft	Vertical Section (Position of Origin Relative to Slot)	+N / -S: 0.00 USft
	+N / -S: 19.67 US ft	+E / -W: -3.08 US ft	Slot TVD Reference: Ground El	Elevation above: 5271.00 US ft	Comment:	Type: Main well	Rig Height Drill Floor: 26.00 Relative to: 5297.00 US ft	Closure Distance: 1630.48 US ft	Vertical Section (Posit	
		Slot Name	NIBIT 1000 SEAFC	NDO 1022-31403			Well Name		NBU 1022-3P4CS	

	Company:		Dip: 65.79°
			Declination: 10.83°
	Comment :		Field Strength: 52103.4 nT
urvey	Survey Tool :		Date: 24/Apr/2013
Survey Name :Definitive S	Date: 24/Apr/2013	Magnetic Mode	Model Name: BGGM

Weatherford International Limited

5D Survey Report

SURFACE MWD	WFT MWD SVY		CL VS Comment (11S ft.)																																
			υ: 	(°/100 US ft)	(%/100 US ft) 0.00	(%/100 US ft) 0.00 0.00	(*/100 US ft.) 0.00 0.00 0.00	(9/100 US ft.) 0.00 0.00 0.00 0.00	(9/100 US ft.) 0.00 0.00 0.00 0.29 0.52	(9/100 US ft.) 0.00 0.00 0.00 0.29 0.52 0.52	(*/100 US ft.) 0.00 0.00 0.00 0.29 0.52 0.96 1.83	(*/100 US ft.) 0.00 0.00 0.29 0.52 0.96 1.83 2.88	(*/100 US ft.) 0.00 0.00 0.29 0.52 0.96 1.83 2.88 1.86	(*/100 US ft.) 0.00 0.00 0.00 0.29 0.52 0.96 1.83 2.88 1.86 2.07	(*/100 US ft.) 0.00 0.00 0.00 0.29 0.52 0.96 1.83 2.88 2.07 2.07	(%)100 US ft) 0.00 0.00 0.29 0.52 0.96 1.83 2.88 2.07 2.07 1.95	(%)100 US ft) 0.00 0.00 0.00 0.29 0.52 0.96 1.83 2.88 2.07 2.07 2.06 1.95	(%)100 US ft) 0.00 0.00 0.00 0.29 0.52 0.96 1.83 2.07 2.06 1.95 1.133	(%)100 US ft) 0.00 0.00 0.00 0.29 0.52 0.96 1.83 2.07 2.06 1.95 1.133	(*/100 US ft.) 0.00 0.00 0.00 0.29 0.52 0.96 1.83 2.07 2.06 1.95 1.133 1.166	(%)100 US ft) 0.00 0.00 0.00 0.29 0.52 0.96 1.83 2.07 2.06 1.95 1.133 1.138 1.166	(*/100 US ft.) 0.00 0.00 0.00 0.29 0.52 0.96 1.83 2.07 2.06 1.95 1.133 1.188 1.186	(*/100 US ft.) 0.00 0.00 0.00 0.29 0.52 0.96 1.83 2.07 2.06 1.95 1.133 1.188 1.186 1.186 2.51	(%)100 US ft) 0.00 0.00 0.00 0.29 0.52 0.96 1.83 2.07 2.06 1.95 1.133 1.188 1.186 1.26 2.21 2.02	(9/100 US ft) 0.00 0.00 0.00 0.29 0.52 0.96 1.83 2.07 2.06 1.95 1.133 1.186 1.17	(9/100 US R) 0.00 0.00 0.00 0.29 0.52 0.96 1.83 2.07 2.07 2.06 1.95 1.133 1.88 1.66 1.78 1.166 2.51 2.02 0.25	(9/100 US R) 0.00 0.00 0.00 0.29 0.52 0.96 1.83 2.07 2.06 1.95 1.133 1.188 1.166 1.78 1.166 2.51 2.02 1.17 0.25	(9/100 US R) 0.00 0.00 0.00 0.29 0.52 0.96 1.83 2.08 2.07 2.06 1.95 1.133 1.88 1.66 1.78 1.66 2.51 2.02 0.25 0.84	(9/100 US R) 0.00 0.00 0.00 0.29 0.52 0.96 1.83 2.07 2.07 2.06 1.151 1.33 1.88 1.66 1.78 1.16 2.01 2.02 0.04 1.17 0.25	(9/100 US R) 0.00 0.00 0.00 0.29 0.52 0.96 1.83 1.86 1.95 1.178 1.186 1.178 1.178 1.186 1.178 1.186 1.166 1.178 1.186 1.167 1.179 1.151 1.151	(9/100 US R) 0.00 0.00 0.00 0.029 0.52 0.96 1.83 1.86 1.95 1.17 1.78 1.186 2.51 2.02 1.166 1.17 0.25 0.84 1.199 1.138	(9/100 US R) 0.00 0.00 0.00 0.29 0.52 0.96 1.83 2.07 2.07 2.06 1.151 1.33 1.86 2.51 2.02 1.16 1.17 0.25 0.84 1.19 1.109 1.101	(9/100 US R) 0.00 0.00 0.00 0.29 0.52 0.96 1.83 1.86 1.95 1.17 1.33 1.86 2.07 2.06 1.95 1.16 1.17 0.25 0.84 1.19 1.19 1.19 1.10 0.25 1.19 1.10	(9/100 US R) 0.00 0.00 0.00 0.029 0.52 0.96 1.83 1.86 1.95 1.17 1.33 1.86 2.51 2.02 1.16 1.17 0.25 0.84 1.09 1.138 1.161 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.0	(9/100 US R) 0.00 0.00 0.00 0.029 0.52 0.96 1.83 1.86 1.95 1.17 1.13 1.18 1.16 1.17 0.25 0.84 1.09 1.161 1.09 1.186 1.161 1.188 1.186 1.161 1.197 1.197 1.198 1.198 1.198 1.198 1.198 1.198 1.198 1.198 1.198 1.198 1.198 1.198
2657.00	9120.00			Longitude (°)	Longitude (°) -109.423361	Longitude (°) -109.423361 -109.423361	Longitude (°) -109.423361 -109.423361 -109.423361	Longitude (°) -109.423361 -109.423361 -109.423360	Longitude (°) -109.423361 -109.423361 -109.423360 -109.423359	Longitude (°) -109.423361 -109.423361 -109.423360 -109.423356	Longitude (°) -109.423361 -109.423361 -109.423360 -109.423356 -109.423356	Longitude (°) -109.423361 -109.423361 -109.423360 -109.423356 -109.423357 -109.423327	Longitude (0) -109.423361 -109.423361 -109.423360 -109.423356 -109.423357 -109.423327	Longitude (0) -109.423361 -109.423361 -109.423360 -109.423356 -109.423357 -109.423254	Longitude (0) -109.423361 -109.423361 -109.423360 -109.423356 -109.423357 -109.423254 -109.423203	Longitude (0) -109.423361 -109.423361 -109.423360 -109.423356 -109.423357 -109.423254 -109.423254 -109.423233	Longitude (0) -100.423361 -100.423361 -100.423360 -100.423356 -100.423356 -100.423357 -100.423254 -100.423254 -100.423203 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	91			: Latitude (°)																															
0.00	2657.00	l		п	N.Offset E.Offset (US ft) (US ft) 0.00																														
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		um curvature	centre, TVD relative to Drill Floor)	(6)	(<u>©)</u> 00:0	00:00	(°) 0.00 0.00 0.00	(°) 0.00 0.00 0.00 105.20	(°) 0.00 0.00 0.00 105.20 159.61	(°) 0.00 0.00 1.05.20 159.61 105.64	(°) 0.00 0.00 105.20 159.61 112.32	(°) 0.00 0.00 105.20 159.61 112.32 112.32	(°) 0.00 0.00 105.20 159.61 112.32 112.32 104.71	(°) 0.00 0.00 105.20 159.61 112.32 104.71 106.08	(°) 0.00 0.00 10.00 105.20 159.61 112.32 104.71 106.08 107.49	(°) 0.00 0.00 105.20 159.61 112.32 104.71 106.08 107.49 103.92	0.00 0.00 0.00 10.00 159.61 112.32 104.71 106.08 107.49 103.92 103.92	(°) 0.00 0.00 10.00 105.20 115.32 112.32 104.71 106.08 107.49 103.92 104.41 105.82	(°) 0.00 0.00 105.20 159.61 112.32 104.71 106.08 107.49 103.92 104.41 105.82 104.50 103.53	(°) 0.00 0.00 10.00 105.20 115.32 112.32 104.71 106.08 107.49 103.92 104.41 105.82 104.50 103.53 103.53	(9) 0.00 0.00 1.000 1.05.20 1.15.32 1.12.32 1.04.71 1.06.08 1.07.49 1.03.92 1.04.50 1.05.82 1.04.50 1.03.53 1.03.88	(°) 0.00 0.00 10.00 105.20 112.32 104.71 106.08 107.49 103.92 104.41 105.82 104.50 103.53 103.53 103.88	0.00 0.00 0.00 10.00 105.20 112.32 104.71 106.08 107.49 103.92 103.92 104.50 103.53 103.88 103.94	0.00 0.00 0.00 105.20 159.61 112.32 104.71 106.08 107.49 103.92 104.50 103.53 103.88 103.94 103.88	0.00 0.00 0.00 10.00 105.20 115.32 104.71 106.08 107.49 103.92 105.82 105.82 105.82 103.94 103.94 105.73 105.74	(9) 0.00 0.00 0.00 105.20 159.61 112.32 104.71 106.08 107.49 103.92 104.50 103.53 103.88 103.88 103.94 105.38 105.82	(9) 0.00 0.00 1.000 1.05.20 1.15.32 1.16.08 1.17.49 1.10.32 1.04.50 1.03.92 1.03.88 1.03.88 1.03.94 1.05.82 1.05.82 1.05.82 1.05.82 1.05.82 1.05.82 1.05.82 1.05.82 1.05.82 1.05.82 1.05.82 1.05.82 1.05.82 1.05.82 1.05.83	(9) 0.00 0.00 105.20 115.32 116.64 112.32 104.71 106.08 107.49 103.53 103.18 103.88 103.88 103.88 103.89 105.99 105.99	(9) 0.00 0.00 105.20 115.30 112.32 1104.71 1106.08 1107.49 1103.53 1103.88 1103.88 1103.88 1103.88 1103.88 1103.94 1105.99 1105.99 1105.99 1105.99	(9) 0.00 0.00 1.000 1.000 1.000 1.00.00	0.00 0.00 105.20 115.20 115.32 117.32 104.71 106.08 107.49 103.92 103.53 103.88 103.88 103.88 103.60 105.99 105.99 105.99 105.99	0.00 0.00 105.20 115.32 117.32 110.32 110.32 110.32 110.38 1103.53 1103.88 1103.88 1103.88 1103.64 1105.99 1105.99 1105.99 1105.99 1105.99 1105.99	0.00 0.00 105.20 159.61 105.64 112.32 104.71 106.08 107.49 103.92 104.41 105.82 104.41 105.82 104.50 105.82 105.99 105.99 106.64 105.99 106.64 105.99 106.64 106.52 107.49	0.00 0.00 105.20 159.61 105.64 112.32 104.71 106.08 107.49 103.92 104.41 105.82 104.50 103.88 103.88 103.88 103.94 105.99 106.64 105.99 106.64 105.99 106.52 106.99 106.52 106.99 106.52 106.99	0.00 0.00 105.20 115.32 116.64 117.32 104.71 106.08 107.49 103.92 104.41 105.82 104.50 105.99 105.99 106.64 105.99 106.64 105.99 106.64 105.99 106.64 106.99 106.99 106.99 106.99 106.99 106.99
MWD		Well path created using minimum curvature	Survey Points (Relative to cent MD Inc (US ft) (*)		00.00 00.00																														0.00 0.00 22.00 0.00 26.00 0.00 26.00 0.00 147.00 0.35 291.00 0.97 378.00 2.55 468.00 2.55 468.00 12.13 918.00 12.13 918.00 12.13 918.00 12.13 918.00 12.56 1128.00 16.27 1128.00 16.27 1128.00 16.27 1128.00 23.21 1536.00 23.21 1538.00 25.94 1628.00 25.94 1818.00 26.64 1998.00 25.94 1988.00 26.20 2088.00 26.20 2178.00 23.57 2268.00 23.13 2448.00 23.13 2480.00 23.13

Weatherford International Limited

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5D Survey Report

rvey Points (Relative to		centre, TVD relative to Drill Floor)	orill Floor)								
ME (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (°)	Longitude (°)	DLS (°/100 US ft)	CL (US ft)	VS (US ft)	Comment
6528.00	0.75	204.94	6197.63	-404.84	1566.51	39.971493	-109.417771	0.19	95.00	1617.91	
6622.00	0.81	193.07	6291.62	-406.04	1566.10	39.971490	-109.417773	0.18	94.00	1617.82	
6717.00	0.81	181.57	6386.61	-407.37	1565.93	39.971486	-109.417773	0.17	95.00	1618.00	
6811.00	0.94	180.70	6480.60	-408.80	1565.90	39.971482	-109.417773	0.14	94.00	1618.35	
6905.00	1.06	171.07	6574.59	-410.43	1566.03	39.971478	-109.417773	0.22	94.00	1618.85	
7000.00	1.31	167.45	6669.57	-412.36	1566.40	39.971473	-109.417771	0.27	95.00	1619.75	
7094.00	0.63	267.44	6763.56	-413.43	1566.12	39.971470	-109.417772	1.65	94.00	1619.76	
7189.00	0.27	214.38	6858.55	-413.64	1565.47	39.971469	-109,417775	0.54	95.00	1619.18	
7283.00	0.13	178.32	6952.55	-413.93	1565.35	39.971468	-109.417775	0.19	94.00	1619.14	
7377.00	0.63	195.45	7046.55	-414.54	1565.21	39.971467	-109.417776	0.54	94.00	1619.17	
7472.00	1.50	331.32	7141.54	-413.95	1564.48	39.971468	-109.417778	2.11	95.00	1618.30	
7566.00	1.13	324.57	7235.52	-412.11	1563.35	39.971473	-109.417782	0.43	94.00	1616.74	
7661.00	0.63	319.45	7330.51	-410.95	1562.47	39.971477	-109.417785	0.53	95.00	1615.59	
7755.00	0.13	314.70	7424.50	-410.49	1562.06	39.971478	-109.417787	0.53	94.00	1615.07	
7850.00	0.00	0.00	7519.50	-410.41	1561.98	39.971478	-109.417787	0.14	95.00	1614.97	
7944.00	0.31	148.07	7613.50	-410.63	1562.11	39.971477	-109.417787	0.33	94.00	1615.16	
8228.00	1.03	162.29	7897.48	-413.71	1563.30	39.971469	-109.417783	0.26	284.00	1617.10	
8511.00	1.69	168.57	8180.40	-420.22	1564.90	39.971451	-109.417777	0.24	283.00	1620.34	
8795.00	2.38	172.20	8464.22	-430.17	1566.53	39.971424	-109.417771	0.25	284.00	1624.49	
8983.00	2.38	170.07	8652.06	-437.88	1567.73	39.971403	-109.417767	0.05	188.00	1627.65	
90.00	2.65	168.66	8738.97	-441.63	1568.44	39.971392	-109.417764	0.32	87.00	1629.31	LAST WFT MWD SVY
9120.00	2.65	168.66	8788.92	-443.90	1568.89	39.971386	-109.417763	0.00	50.00	1630.34	PROJECTION TC TD

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